S
621.31
M26mpc
1995
Montana Power Company
The Montana Power Company long range plan

AUG 21 1988
MONTANA STATE LIBRARY
1515 E. 6th AVE.
HELENA, MONTANA 59620

THE MONTANA POWER COMPANY

LONG-RANGE PLAN

APRIL 1, 1975

PLEASE RETURN

Montana State Library
3 0864 1006 6142 3

MONTANA STATE LIBRARY
1515 E. 6th AVE.
HELENA, MONTANA 59620

AUG 11 1988

RECEIVED
APR 1 1976
MONT. DEPT. OF NATURAL
RESOURCES & CONSERVATION

THE MONTANA POWER COMPANY

TE OF MONTANA/RECEIVED
NOV 5 1976
OF COMMUNITY AFFAIRS
& INFORMATION SYSTEMS DIV.

LONG RANGE PLAN

Filed as of April 1, 1976

Pursuant to the Montana Major Facilities Siting Act

I-1. INTRODUCTION

Pursuant to Section 70-814 of the Montana Major Facilities Siting Act (formerly Montana Utility Siting Act of 1973), hereinafter referred to as the "Act", and Section 36-2.8(6)-S870 of the regulations issued thereunder, hereinafter referred to as "Regulations", The Montana Power Company hereby submits as of April 1, 1976 its annual long-range plan to the Montana Department of Natural Resources and Conservation. Certain voluminous exhibits which are part of this long-range plan are not included in each copy of the plan, but are on file with the Montana Department of Natural Resources and Conservation for inspection.

It should be noted that the information in this long-range plan represents the best efforts of The Montana Power Company to set forth its plans and projections based on present knowledge, data and circumstances. Because present circumstances may unpredictably change, the plans and projections set forth herein may also necessarily change.

Digitized by the Internet Archive
in 2014

https://archive.org/details/montanapowercomp1975mont

II. THE GENERAL LOCATION, SIZE AND TYPE OF THE UTILITY FACILITY TO BE OWNED AND OPERATED BY THE MONTANA POWER COMPANY, WHOSE CONSTRUCTION IS PROJECTED AS OF APRIL 1, 1976, TO COMMENCE DURING THE ENSUING TEN YEARS, AS WELL AS THOSE FACILITIES TO BE REMOVED FROM SERVICE DURING THE PLANNING PERIOD.[1]

II-1. Energy, Generating and Conversion Plant and Associated Facilities

Energy, generating and conversion plants to be owned and operated by The Montana Power Company whose construction is projected to commence during the ensuing ten (10) years, including an estimate of applicable filing dates, are shown on the attached chart marked Exhibit "A", and are discussed below.

II-1.1. Colstrip Units 3 and 4

Application for a 1400 megawatt coal-fired steam generation plant (Colstrip Units 3 and 4) to be built at Colstrip, Montana, was filed by The Montana Power Company along with Puget Sound Power & Light Company, Portland General Electric Company, The Washington Water Power Company and Pacific Power & Light Company ("Applicants") on June 6, 1973. The Applicants requested construction of Colstrip Units 3 and 4 be allowed to commence on or before May 1, 1974. The Applicants originally scheduled commercial operation of Colstrip Unit 3 to commence in July, 1978 and Unit 4 to commence in July, 1979. The Applicants' schedule for Colstrip Units 3 and 4 has been delayed two years because of delays

---

1. Montana Major Facilities Siting Act, 70-814 (1)(a); Montana Administrative Code §36-2.8(6)-S870(1)(a)(b)(c)(2)

in receiving approval under the Act. Colstrip Unit 3 commercial operation is now scheduled for July, 1980, and Colstrip Unit 4 commercial operation is now scheduled for July, 1981 by the Applicants. There is no viable alternative to Colstrip Units 3 and 4 to meet the 1980-81 electrical demands. See copy of letter dated May 3, 1974 to Mr. Gary J. Wicks from Mr. William H. Coldiron attached hereto marked Exhibit "B".

II-1.2 Hydro Generation

The Montana Power Company ("Company") and the Confederated Kootenai and Salish Tribes ("Tribes") filed application with the Federal Power Commission for the construction of two hydroelectric projects referred to as "Buffalo Rapids No. 2" and "Buffalo Rapids No. 4", to be located on the Flathead River in Sanders and Lake Counties, Montana. By Order issued December 15, 1975, the Federal Power Commission dismissed the application because no agreement was reached between the Company and Tribes. If and when "Buffalo Rapids No. 2" and "Buffalo Rapids No. 4" are built depends on whether the Company can reach an agreement with the Tribes, then refile for and receive a license from the Federal Power Commission for the proposed units.

If The Montana Power Company can reach agreement with the Confederated Kootenai and Salish Tribes, The Montana Power Company is considering and studying the possibilities of installing a fourth 60-80 megawatt unit at Kerr and/or refitting/rewinding the present Kerr units to increase present capacity by about 25-35%. Implementation of either of these possibilities would

require receipt of an amended license from the Federal Power Commission. In any event, construction on either of these projects probably would not commence prior to 1980.

II-1.3 Other Generation

Assuming that Colstrip Units 3 and 4 are constructed as discussed above, The Montana Power Company system would become deficient starting in 1986-87. To cover these deficiencies projected for the late 1980's, different possibilities or a combination thereof exist. However, not all of such possibilities would be developed within this time frame. Construction of Buffalo Rapids No. 2 and No. 4 and/or adding a fourth unit at Kerr, and/or increasing capacity at Kerr are possibilities. Construction of these hydro projects would, of course, and as discussed above, depend on agreements with the Indians, issuance of licenses from the Federal Power Commission, and any other necessary requirements. Construction of additional thermal generation somewhere in Montana, or participation by The Montana Power Company in generation plants outside Montana, are other possibilities in order to meet load responsibilities in the late 1980's.

II-1.4 Gasification Plant and Associated Facilities

The Montana Power Company has under consideration participation in the construction of one or more coal gasification plants. Because of the enormous investment requirement to construct such a plant, it would be impossible for Montana Power to construct such a plant alone. A partner or partners, with substantial financial standing, would be

required to raise the necessary capital for such a plant. Whether a coal gasification plant or plants would be proposed within the next ten years will depend, among other things, on such factors as the continued availability of gas from Canada, new discoveries of gas available to Montana Power in Montana and neighboring states, and availability of capital.

II-2. Electric Transmission Lines

Electric transmission lines projected to commence during the next ten years may be classified for purposes of discussion into three groups. The first group consists of those transmission lines for which study has been made by The Montana Power Company and application has or will most likely be made in the near future. A second group consists of transmission lines which are now under study by The Montana Power Company generally for system improvement for which application may be made during the next ten years depending upon several factors, including the results of studies now under way by The Montana Power Company and future load growth and the location of new generation that comes on line. A third group consists of transmission lines for which application may be made depending upon such things as development of mining, irrigation, industrial or other particular loads.

The transmission lines in this first group with their appropriate length and voltage and their approximate date for filing of application and construction, are shown on the attached chart marked Exhibit "C". As shown on Exhibit "C", application

will be filed soon for the Broadview-Roundup-Glengarry (a joint project to be constructed by The Montana Power Company and Fergus Electric Cooperative) 100-kV line.

The transmission lines in the second group along with their approximate length and voltage and approximate date for filing of application and construction are shown on the attached chart marked Exhibit "D".

The transmission lines in the third group, along with their probable voltage, are shown on the attached chart marked Exhibit "E".

III. A DESCRIPTION OF EFFORTS BY THE MONTANA POWER COMPANY TO COORDINATE ITS PLANS WITH OTHER UTILITIES AS TO PROVIDE A COORDINATED REGIONAL PLAN FOR MEETING THE UTILITIES' NEEDS OF THE REGIONS.[2]

III-1. General

Two basic facts are evident from examining The Montana Power Company's coordinated regional planning. First, there is a great amount of cooperation among private and public utilities in the Pacific Northwest. Secondly, there are many benefits to The Montana Power Company and other utilities in the Pacific Northwest and to their customers as a result of this regional cooperation.

III-2. Cooperation Among Utilities

Cooperation among utilities in the Pacific Northwest

---

[2] Montana Major Facilities Siting Act, §70-814(1)(b) R.C.M. 1947; Montana Administrative Code §36-2.8(6)-S870(5).

has historically evolved, and now is structured by various organizations and agreements. For example, these organizations and agreements include:

(1) Western Systems Coordinating Council which was organized August 4, 1967 to promote reliability of bulk power electric systems in the West. Members now include 19 investor owned and 25 publicly or cooperative owned systems as well as 14 affiliated member electrical systems. The area covers all or parts of 14 western states and British Columbia. The purpose of the council is to provide a formal means for exchange of data and information and to make regional studies and recommendations that will have a favorable bearing on the reliability and adequacy of electric service in the West.

(2) The Pacific Northwest Utilities Conference Committee consists of 108 non-federal public agencies and 5 private companies. Its purposes include the coordination of load/resource planning in the Northwest region. The Montana Power Company is now an active and formal member of the Committee.

(3) The Joint Power Planning Council also works with regional loads and resources. The Montana Power Company is actively represented in the Council.

(4) The Northwest Power Pool, of which The Montana Power Company is one of the organizers, coordinates the bulk power system operation in the Northwest area. It is a long-standing and successful voluntary power pool and one of the oldest in the nation. Members of the NWPP coordinate and

optimize their respective bulk system operations to enhance reliability and efficiency.

(5) The Intercompany Pool (ICP) is a new formal power pool organization of seven investor-owned utilities within the Northwest Power Pool area. Its express purposes include joint planning for additional required resources and transmission, pooling of reserve requirements, and optimizing use and distribution of secondary energy among the members.

(6) The Pacific Northwest Coordination Agreement was culminated in 1964 after years of negotiation among private and public utilities on the Columbia River System. Its principal purposes are to coordinate and optimize hydro generation operation and to allow equitable distribution of benefits from hydro storage developments on the Columbia River Basin. It is also active in the development of large shared thermal-electric generating plants under the Hydrothermal Program.

(7) The Pacific Northwest Power Company, of which The Montana Power Company is a participant, was formed to pursue development of hydro generation, particularly on the Snake River.

(8) Other agreements among individual utilities such as AMPS Agreement (Associated Mountain Power Systems), consisting of Pacific Power & Light Company, Utah Power & Light Company, Washington Water Power Company, The Montana Power Company and Idaho Power Company, are designed for the exchange of power and sharing of transmission capacity. For

a limited period this agreement also provided for sharing the costs and outputs of particular steam-generating plants in Wyoming.

(9) There are also agreements and working relationships with the Federal Agencies such as the Bonneville Power Administration and the Bureau of Reclamation, and agreement with various cooperatives in the state of Montana such as the Central Montana G & T and other system review with Co-ops in Montana..

III-2.1 Benefits of Regional Cooperation

The benefits of such regional agreements and organizations as discussed above are:

(1) Maximizing the use of resources;

(2) Minimizing the cost of energy to the utilities and to their customers;

(3) Providing reliability and better service; and

(4) Minimizing environmental impact.

These benefits and objectives are studied and pursued in consideration of climates, water sheds, time zones, types of loads, etc., of each utility in the region. The exchange of power among utilities in the joint participation and construction and operation of facilities inures to all of these objectives.

An example of this type of regional planning by the Pacific Northwest utilities is found in the annual West Group Forecast of the Pacific Northwest Utilities Conference Committee, which lists the combined regional loads of the area and the

combined resources available to meet those loads. Included in those resources are many jointly-planned plants to supply future resource requirements. Current summaries of loads and lists of future resources are shown on Exhibit "F" attached hereto excerpted from the 1976 West Group Forecast.

This regional cooperation allows a utility such as The Montana Power Company, which may have deficiency over a period of years, to import power from another state and utility in order to meet its deficiencies. Such an exchange of power and participation keeps the utility from having to build several small facilities every time the utility has a slight increase in load demand. The utility may be an importer for a period of time, and then it may be an exporter, and then in a few years it will become an importer again.

This exchange of power among utilities in the Northwest may also occur at certain times of the year and times of the day, because of the diversity of peak loads among utilities in this region.

Furthermore, regional cooperation and interconnected systems provide greater reliability to the customers of all regions. For example, if one utility's generation or transmission is out of service, another utility's facilities may help accommodate the utility with facilities out of service.

Furthermore, for the same amount of energy and service,

the cost of construction and operation of fewer large facilities is less than the cost of construction and operation of many smaller facilities. This helps get energy to customers at the lowest possible rate.

Furthermore, fewer large facilities often have less environmental impact than many smaller facilities. For example, one larger transmission line may be built in lieu of several smaller transmission lines.

In summary, these objectives and resulting benefits of regional cooperation are in the interest of each utility and each of their customers. It is submitted that this regional cooperation is envisioned in siting legislation such as the Montana Major Facilities Siting Act.

IV. A DESCRIPTION OF THE MONTANA POWER COMPANY'S EFFORT TO INVOLVE ENVIRONMENTAL PROTECTION AND LAND USE PLANNING AGENCIES IN THE PLANNING PROCESS, AS WELL AS OTHER EFFORTS OF THE MONTANA POWER COMPANY TO IDENTIFY AND TO MINIMIZE ENVIRONMENTAL PROBLEMS AT THE EARLIEST POSSIBLE STAGE IN THE PLANNING PROCESS.[3]

IV-1. General Policy

The Montana Power Company's policy and practice are to communicate and cooperate with Federal and State agencies as well as citizen and public interest groups on all energy and environmental matters to the extent practical.

IV-2. Participation in Land Use and Environmental Planning

The Montana Power Company cooperates with Federal and

---

3. Montana Major Facilities Siting Act §70-814(1)(c).

State government agencies regarding land use planning and environmental protection. For example, The Montana Power Company has participated in the multiple use plans of the United States Forest Service and the United States Bureau of Land Management. Montana Power also participates in a number of EPA activities, committees and seminars as well as committees of state agencies such as the Department of Health and Environmental Sciences.

The Montana Power Company also actively participates in a number of citizen groups and technical advisory groups concerned with the environment and the land use planning such as the Rock Creek Advisory Committee, the Natural Areas Committee, the Natural Resource Committee, Montana State Rural Areas Development, Montana Committee for Humanities and various water quality area planning organizations.

Representatives of The Montana Power Company also participate in a number of industry associations and groups concerned with environmental and land use planning such as the Edison Electric Institute Environment and Energy Committee, the NELPA Environmental Committee, and the American Right of Way Association, and WSCC Environmental Committee.

With regard to particular projects, such as the proposed Colstrip Units 3 and 4, The Montana Power Company cooperates and works with government agencies, citizen groups, and the general public in the development of such proposals.

V. PROJECTIONS OF THE DEMAND FOR SERVICES RENDERED BY THE MONTANA POWER COMPANY AND EXPLANATION OF THE BASIS FOR SUCH PROJECTIONS, AND A DESCRIPTION OF THE MANNER AND EXTENT TO WHICH THE PROPOSED FACILITIES WILL MEET THE PROJECTED DEMAND. [4]

V-1. General

The Montana Power Company continuously monitors the demand for electricity and studies and pursues alternate resources to meet the demand. In addition to following national and regional trends in energy use, and developments in resource technology, the Company also makes load and resource forecasts of its own total system.

V-1.2 System Load and Resource Forecast For the Montana Power Company Total System

Load and resource forecasts are reviewed and updated frequently. These load and resource forecasts for the total Montana Power Company system are based not only on historical trends, but also are weighted in light of other factors such as anticipated additions or reductions of known loads, weather, economic conditions and many other factors. It is important to note that during the past twenty years the load projections of The Montana Power Company have been very accurate and, if anything, have under-projected load growth.

The method by which The Montana Power Company forecasts its loads is as follows: First, the Company separates

---

4. Montana Utility Siting Act Section 70-814(1)(d); Montana Administrative Code Section 36-2.8(6)-S870(3)(4).

the total load into a "base"component and a "block" component. The latter consists of a small number of large industrial users whose loads have exhibited no discernible trend over the years. Future loads for this group, both peak and average energy, are projected on a customer-by-customer basis. Future loads for the remaining component, the "base" component, are projected by means of trend extrapolation. Both peak and average energy loads are projected for this component as well as for the "block" load component. Overall, Montana Power's methods of forecasting loads are similar to those traditionally employed by most other utility companies.

The Montana Power Company also continuously monitors its own load and resource projections. Attached hereto as Exhibits "G" and "H" are the load and resource projections as of January 19, 1976 for The Montana Power Company's system for each of the next ten years. These load and resource projections present projections for average energy and peak loads, both including Colstrip Units 3 and 4 (Exhibit "G"), and excluding Colstrip Units 3 and 4 (Exhibit "H").

V-1.3 Substation Load Analysis

In addition to making load and resource forecasts for its total system, The Montana Power Company also monitors loads on each of its approximately 600 substations throughout its service area. The monthly peak and average kilowatts used at each of these substations during 1975 are shown on the attached table marked Exhibit "I" entitled, "1975 Peak and Average Kilowatt Readings for Distribution Substations". Future

energy demand patterns of a substation unit area for annual imcrements for the next ten years are shown on the attached table marked Exhibit "K" entitled "Estimated Peak Substation Load in Kilowatts 1976-1986".[5] The area that each of the substations serves is indicated in the map format and the substation identified by its installation number as required by the regulations. [6] The map showing the substations is marked Exhibit "J".

The "NA" designation on Exhibit "I" indicates that the reading for that particular substation was not acceptable. Such a designation is a result of several possible reasons, including that the substation reading was obviously incorrect or no reading was reported.

The Estimated Peak Substation Load shown on Exhibit "K" is based on a recording period from April to April. For this reason, the column headings are not listed as a singular year. This is done so that the winter peaks may be recorded for the three consecutive winter months of December, January and February, i.e., the 75-76 peaks including December of 1975 and January and February of 1976 (January, 1975 is not included). The peaks indicated are not coincidental. They represent the maximum peak reading anticipated for the year and may occur at any time during the year.

---

5. Montana Administrative Code Section 36-2.8(6)-S870(4)

6. Montana Administrative Code Section 36-2.8(6)-S870(3)

The basic projections were made by fitting a compound growth curve by means of a least squares method fit to the existing data. The projections were then analyzed for their validity, taking into consideration the number of years of data the projection was based on, recent trends in the area, and expected load additions. If a projection made by the computer is obviously not valid, a reasonable prediction is made based on historical and known load growth data for the area.

V-1.4 Meeting System Loads

Projections based on continuous monitoring of substations and other factors are studied by The Montana Power Company to determine what expansion programs are necessary on its system. Expansion programs may mean increasing transformer size for capability, adding additional transformers or building new substations, or building new transmission or generation facilities. New substations or a shifting of loads from substation to substation or transformer to transformer may give an erroneous impression of actual area growth. A careful analysis of changes which have taken place is necessary to determine actual load growth in an area. To establish load growth rates, many factors must be considered and analyzed. Weather conditions, extended outages, switching of loads, construction procedures, industrial and commercial development, urban development, development of residential subdivisions, irrigation and pumping, and air conditioning requirements are some of these factors which must be considered as they may affect

load growth rates. When accurate substation growth rates are determined, then "load flow" computer programs are developed from these rates and are used as an aid in determining transmission line requirements.

When it appears that additional transmission lines or generation are needed as a result of this monthly and yearly monitoring of substation load changes and as a result of all of the many other factors such as weather conditions, extended outages, switching of loads, industrial and commercial development, urban development, irrigation and pumping, etc., then more detailed studies of transmission line and generation requirements are made.

In addition to the continuous monitoring of the entire system by monthly and yearly changes, The Montana Power Company also takes into consideration the anticipated or trends in type of load growth. For example, The Montana Power Company considers inquiries or requests for major additional loads from industrial, agricultural or other sources. The Montana Power Company also considers and anticipates that certain uses of electricity, such as the use of electricity for sprinkler irrigation or home heating, will create substantial additions to its load demand.

The Montana Power Company, in an attempt to fulfill its responsibility to provide electric service to its customers, attempts to balance electrical resources against electrical load. This is done on both a peak and energy basis. Such forecasts must also include consideration of reserves which are required to make sure that the Company can serve its customers

at all times. The forecasts also take into account required down time of plants and facilities for maintenance and contracts of exchange with other utilities. When it is determined that a new source of generation or transmission is needed, The Montana Power Company considers the alternatives for meeting these requirements and makes further detailed studies regarding the needed facility. As pointed out in Section III hereof, such studies are often conducted in cooperation with other utilities in the region.

The general size and type of utility facilities to be owned and operated by The Montana Power Company, which are discussed in Section II above, are a result of all of these studies and considerations regarding projection and demand. If the facilities that are proposed in Section II above are allowed to be built as scheduled by The Montana Power Company, such facilities should adequately meet the projected demand. For example, as shown on Exhibit "G", if Colstrip Units 3 and 4 are not built, we will face serious peak and energy deficiencies starting in 1979-80.

THE MONTANA POWER COMPANY
LONG-RANGE PLAN

Pursuant to the Montana Utility Siting Act

Filed as of April 1, 1975

I. INTRODUCTION

I-1 Statutes:

70-814[1] provides:

"(1) Each utility shall furnish annually to the department for its review, a long-range plan for the construction and operation of utility facilities. Such plan shall be submitted on April 1 of each year. The plan shall include the following:

"(a) the general location, size and type of all utility facilities to be owned and operated by the utility whose construction is projected to commence during the ensuing ten (10) years, as well as those facilities to be removed from service during the planning period;

"(b) a description of efforts by the utility to co-ordinate the plan with other utilities so as to provide a co-ordinated regional plan for meeting the utility needs of the region;

"(c) a description of the efforts to involve environmental protection and land-use planning agencies in the planning process, as well as other efforts to identify and minimize environmental problems at the earliest possible stage in the planning process;

"(d) projections of the demand for the service rendered by the utility and explanation of the basis for such projections, and a description of the manner and extent to which the proposed facilities will meet the projected demand; and

"(e) additional information that the department on its own initiative or upon the advice of interested state agencies might request in order to carry out the purposes of this act.

---

1. Montana Utility Siting Act of 1973, 70-801 et seq., RCM 1947

70-803(3)[2] in pertinent part provides:

"(3) the words 'utility facility' or 'facility' mean:

"(a) any energy-generating and conversion plant and associated facilities

"(i) designed for, or capable of, generating at fifty (50) megawatts of electricity or more... or

"(ii) designed for, or capable of producing one hundred million (100,000,000) cubic feet of gas per day... or

"(iii) designed for, or capable of, producing fifty thousand (50,000) barrels of liquid hydrocarbon products per day... or

"(b) an electric transmission line and associated facilities of a design capacity of thirty-four and one-half (34.5) kilovolts or more, except that the following transmission lines and associated facilities shall be subject to certain exceptions under the act:

"(i) a transmission line and associated facilities with a design capacity of sixty-nine (69) kilovolts or less and which will be constructed above ground for a distance of ten (10) miles or less shall not be considered a utility facility within the definitions of this act,

"(ii) a transmission line and associated facilities with a design capacity of one hundred sixty-one (161) kilovolts or less and which will be constructed underground a distance of five (5) miles or less shall not be considered a utility facility within the definitions of this act,

"(iii) a transmission line or associated facilities of a design capacity of one hundred sixty-one (161) kilovolts or less which does not meet the requirements of subsections (i) and (ii) of this subsection shall be subject to the specific time review requirements...if the proposed length of the transmission line will not exceed thirty (30) miles,

"(c) a gas or liquid transmission line and associated facilities designed for, or capable of, transporting gas or liquid hydrocarbon products from a gasification or liquefaction

---

2. Ibid.

facility of the size indicated in subsections (a)(ii) and (a)(iii)of this section."

36-2.8(6)-S870 CONTENT[3] provides:

"(1) Within each long-range plan the approximate filing date for new applications shall be listed in the following manner:

"(a) For the first planning year, the submission date of each expected application shall be indicated on a quarterly basis, i.e., indicate which quarter a new application will be filed.

"(b) For the second and third planning years, the submission date of each expected application shall be indicated on a semi-annual basis.

"(c) From the fourth year to the tenth, the date of filing any new application shall be indicated on a yearly basis.

"(2) Within each long-range plan, the content of each listed new application shall include the general location, size, and type of all utility facilities and the approximate date that construction will commence. A period of at least nine (9) months or two (2) years for one hundred eighty (180) day and six hundred (600) day applications respectively shall be included in the long-range planning calendar in order for the Department to evaluate the application.

"(3) The average monthly consumption and, where applicable, monthly peak demand shall be shown for the form of energy involved in the long-range plan for each unit area of the service area within Montana of the utility filing the plan.

"(4) Future energy demand patterns of the unit area of the service area of the utility within Montana shall be indicated in a map format. These shall be based upon either annual or biennial increments for at least the first ten (10) years. The long-range plan shall also discuss the types of efforts that will be undertaken to meet the expected demand.

"(5) The long-range plan from electricity utilities shall include a summary of pooling, interconnection, and exchange agreements."

3. Montana Administrative Code, 36-2.8(6)-S870 et seq.

I-2 Introduction:

Pursuant to Section 70-814 of the Montana Utility Siting Act of 1973, ("Act") and Section 36-2.8(6)-S870 of the regulations issued thereunder ("Regulations"), The Montana Power Company hereby submits as of April, 1, 1975, its annual long-range plan to the Montana Department of Natural Resources and Conservation. The content of this long-range plan which follows is set forth pursuant to the requirements of Section 70-814 of the "Act" and the "Regulations" issued thereunder. Certain voluminous exhibits which are part of this long-range plan are not included in each copy of the plan, but are on file with the Montana Department of Natural Resources and Conservation for inspection.

Finally, it should be noted that the information in this long-range plan represent the best efforts of The Montana Power Company to set forth its plans and projections based on present knowledge, data and circumstances. Because present circumstances may unpredictably change, the plans and projections set forth herein may also necessarily change.

II. THE GENERAL LOCATION, SIZE AND TYPE OF THE UTILITY FACILITY TO BE OWNED AND OPERATED BY THE MONTANA POWER COMPANY, WHOSE CONSTRUCTION IS PROJECTED AS OF APRIL 1, 1975, TO COMMENCE DURING THE ENSUING TEN (10) YEARS, AS WELL AS THOSE FACILITIES TO BE REMOVED FROM SERVICE DURING THE PLANNING PERIOD.[4]

---

4. Montana Utility Siting Act of 1973, 70-814(1)(a); Montana Administrative Code 36-2.8(6)-S870(1)(a)(b)(c)(2)

II-1 Energy, Generating and Conversion Plant and Associated Facilities.

Energy, generating and conversion plants to be owned and operated by The Montana Power Company whose construction is projected to commence during the ensuing ten (10) years, including an estimate of applicable filing dates, are shown on the attached chart marked Exhibit A, and are discussed below.

II-1.1 Colstrip 3 and 4

Application for a 1400 megawatt coal-fired steam generation plant (Colstrip Units #3 and #4) to be built at Colstrip, Montana, was filed by The Montana Power Company along with Puget Sound Power & Light Company, Portland General Electric Company, The Washington Water Power Company, Pacific Power & Light Company, ("Applicants") on June 6, 1973. The "Applicants" requested construction of Colstrip Units 3 and 4 be allowed to commence on or before May 1, 1974. The "Applicants" originally scheduled commercial operation of Colstrip Units #3 to commence in July, 1978 and Unit #4 to commence in July, 1979. The "Applicants" schedule for Colstrip Units #3 and #4 have been delayed one year because of delay in receiving approval under the "Act". Colstrip Unit #3 commercial operation is now scheduled for July 1979, and Colstrip Unit #4 commercial operation is now scheduled for July 1980 by the "Applicants". There is no viable alternative to

Colstrip Units #3 and #4 to meet the 1979-80 electrical demands. See copy of letter dated May 3, 1974 to Mr. Gary J. Wicks from Mr. William H. Coldiron attached hereto marked Exhibit B.

II-1.2 Hydro Generation

The Montana Power Company and the Confederated Kootenai and Salish tribes have filed application with the Federal Power Commission for the construction of two hydroelectric projects referred to as "Buffalo Rapids #2" and "Buffalo Rapids #4", to be located on the Flathead River in Sanders and Lake Counties, Montana. If and when "Buffalo Rapids #2" and "Buffalo Rapids #4" are built depends on whether The Montana Power Company can reach an agreement with the Indians and receive license from the Federal Power Commission.

If The Montana Power Company can reach agreement with the Confederated Kootenai and Salish Tribes, and if Kerr Dam is relicensed to Montana Power by the Federal Power Commission, The Montana Power Company is considering the installation of an additional approximately 64 megawatt generating unit to the existing facilities at Kerr Dam. In any event construction of such additional unit could not commence prior to 1980.

The Pacific Northwest Power Company of which The Montana Power Company is a partner, has also

filed an application with the Federal Power Commission to construct a hydroelectric project located on the Snake River between the States of Idaho and Oregon. If the Federal Power Commission issues a license to construct such a project and the project is otherwise approved, The Montana Power Company would necessarily re-evaluate its other proposed hydroelectric generating facilities.

II-1.3 Other Generation

Assuming that Colstrip Units #3 and #4 are constructed as discussed above, the next generation to be constructed on The Montana Power system could be any one project or combination of the projects, Buffalo Rapids 2 and 4, Kerr #4 and the Snake River Project. The sequence of construction would depend on agreements with the Indians, Federal Power Commission permits and the availability of any other necessary licenses.

With Colstrip Units 3 and 4 on line the Montana Power system becomes peak deficient in 1983-84. The above mentioned hydro projects could provide the necessary peak and energy resources until the late 1980's, assuming full development of all the projects mentioned.

If the hydro projects were not authorized the next step could be construction of one or more 40-50 MW combustion turbines for 1983-84 operation assuming oil fuel is available followed by base load generation

of about 350 MW for operation in approximately 1985-86, for which no location has been determined at this time.

II-1.4 Gasification Plant and Associated Facilities

The Montana Power Company has under consideration participation in the construction of one or more coal gasification plants. Under existing technology the smallest economically feasible coal gasification plant has a capacity of approximately 250 million cubic feet of gas per day. Because of the enormous investment required to construct such a plant it would be impossible for Montana Power to construct such a project alone. A partner or partners, with substantial financial standing, would be required to raise the necessary capital for such a plant. Montana Power could not absorb 250 million cubic feet of gas per day into its system at one time within the next ten years. Therefore, a market would have to be available for that portion of the output of a coal gasification plant which Montana Power could not absorb into its system. Whether a coal gasification plant or plants would be proposed within the next ten years will depend, among other things, on such factors as the continued availability of gas from Canada, new discoveries of gas available to Montana Power in Montana and neighboring states

and the availability of energy sources alternative to gas and the demand for gas.

II-2 Electric Transmission Lines

Electric transmission lines projected to commence during the next ten years may be classified for purposes of discussion into three groups. The first group consists of those transmission lines for which study has been made by The Montana Power Company and application has or will most likely be made in the near future. A second group consists of transmission lines which are now under study by The Montana Power Company generally for system improvement for which application may be made during the next ten years depending upon several factors, including the results of studies now under way by The Montana Power Company and future load growth and the location of new generation that comes on line. A third group consists of transmission lines for which application may be made depending upon such things as development of mining, irrigation, industrial or other particular loads.

The transmission lines in this first group with their approximate length and voltage and their approximate date for filing of application and construction are shown on the attached chart

marked Exhibit C. As shown on Exhibit C, application will be filed for the Broadview-Roundup 100 kV line, the Great Falls-Conrad 115 kV B line, the Dry Creek-Belfry 50 kV line, and the East Bridger-Bridger 100 kV line.

The transmission lines in the second group along with their approximate length and voltage and approximate date for filing of application and construction are shown on the attached chart marked Exhibit D.

The transmission lines in the third group along with their probable voltage are shown on the attached chart marked Exhibit E.

III. A DESCRIPTION OF EFFORTS BY THE MONTANA POWER COMPANY TO COORDINATE ITS PLANS WITH OTHER UTILITIES AS TO PROVIDE A COORDINATE REGIONAL PLAN FOR MEETING THE UTILITIES NEEDS OF THE REGIONS.[5]

III-I General

Two basic facts are evident from examining The Montana Power Comany's coordinated regional planning. First, there is a great amount of cooperation among private and public utilities in the Pacific Northwest. Secondly, there are many benefits to The Montana Power Company and other utilities in the Pacific Northwest and to their customers as a result of this regional cooperation.

---

5. Montana Utility Siting Act, Section 70-814(1)(b) RCM 1947; Montana Administrative Code Section 36-2.8(6)-S870(5)

III-2 Cooperation Among Utilities

Cooperation among utilities in the Pacific Northwest has historically evolved, and now is structured by various organizations and agreements. For example, these organizations and agreements include:

(1) Western Systems Coordinating Council which was organized August 4th, 1967, to promote reliability of bulk power electric systems in the West. Members now include 19 investor owned and 21 publicly or cooperative owned systems as well as 13 affiliated member electrical systems. The area covers 13 westerns states and western Canada. The purpose of the council is to provide a formal means for exchange of data and information and to make regional studies and recommendations that will have a favorable bearing on the reliability and adequacy of electric service in the West.

(2) The Pacific Northwest Utilities Conference Committee consists of 108 non-federal public agencies and 5 private companies. Its purposes include the coordination of load/resource planning in the Northwest region. The Montana Power Company is now an active and formal member of the Committee.

(3) The Joint Power Planning Council also works with regional loads and resources. The Montana Power Company is actively represented in the Council.

(4) The Northwest Power Pool, of which The Montana Power Company is one of the organizers, coordinates the bulk power system operation in the Northwest area. It is a long-standing and successful voluntary power pool and one of the oldest in the nation. Members of the NWPP coordinate and optimize their respective bulk system operations to enhance reliability and efficiency.

(5) The Intercompany Pool (ICP) is a new formal power pool organization of seven investor-owned utilities within the Northwest Power Pool area. Its express purposes include joint planning for additional required resources and transmission, pooling of reserve requirements, and optimizing use and distribution of secondary energy among the members.

(6) The Pacific Northwest Coordination Agreement was culminated in 1964 after years of negotiation among private and public utilities on the Columbia River System. Its principal purposes are to coordinate and optimize hydro generation operation and to allow equitable distribution of benefits from hydro storage developments in the Columbia River basin. It is also active in the development of large shared thermal-electric generating plants under the Hydrothermal Program.

(7) The Pacific Northwest Power Company, of which The Montana Power Company is a participant,

was formed to pursue development of hydro generation, particularly on the Snake River.

(8) Other agreements among individual utilities such as AMPS Agreement (Associated Mountain Power Systems) consisting of Pacfic Power & Light Company, Utah Power & Light Company, Washington Water Power Company, The Montana Power Company and Idaho Power Company are designed for the exchange of power and sharing of transmission capacity. For a limited period this agreement also provided for sharing the costs and outputs of particular steam-generating plants in Wyoming.

(9) There are also agreements and working relationships with the Federal Agencies such as the Bonneville Power Administration and the Bureau of Reclamation and agreement with various cooperatives in the State of Montana, such as the Central Montana G & T and other system review with Coops in Montana.

III-2.1 Benefits of Regional Cooperation

The benefits of such regional agreements and organizations as discussed above are:

(1) Maximizing the use of resources.

(2) Minimizing the cost of energy to the utilities and to their customers.

(3) Providing reliability and better service.

(4) Minimizing environmental impact.

These benefits and objectives are studied and pursued in consideration of climates, water sheds, time zones, types of loads, etc., of each utility in the region. The exchange of power among utilities in the joint participation and construction and operation of facilities inures to all of these objectives.

As one good example of this regional planning, attached is a copy of the Bonneville Power Administration's "Pacific Northwest Power outlook through 1985-86" published in March 1975 and attached hereto as Exhibit F. As noted on pages 6 and 7 of Exhibit F, there are several generation plants under construction or planned throughout the Northwest which are being planned and built by various groups of private and public utilities, in order to meet the entire loads of the Pacific Northwest.

This regional cooperation allows a utility such as The Montana Power Company, which may have deficiency over a period of years, to import power from another state and utility in order to meet its deficiencies. Such an exchange of power and participation keeps the utility from having to build several small facilities every time the utility has a slight increase in load demand. The utility may be an importer for a period of time, and then it may be an exporter, and then in a few years it will again become an importer.

This exchange of power among utilities in the Northwest may also occur at certain times of the year and times of the day, because of the diversity of peak loads among utilities in this region.

Furthermore, regional cooperation and interconnected systems provide greater reliability to the customers of all regions. For example, if one utility's generation or transmission is out of service, another utility's facilities may help accommodate the utility with facilities out of service.

Furthermore, for the same amount of energy and service, the cost of construction and operation of fewer large facilities is less than the cost of construction and operation of many smaller facilities. This helps get energy to customers at the lowest possible rate.

Furthermore, fewer large facilities often have less environmental impact than many smaller facilities. For example, one larger transmission line may be built in lieu of several smaller transmission lines.

In summary, these objectives and resulting benefits of regional cooperation are in the interest of each utility and each of their customers. It is submitted that this regional cooperation is envisioned in siting legislation such as the Montana Utility Siting Act.

IV. A DESCRIPTION OF THE MONTANA POWER COMPANY's EFFORTS TO INVOLVE ENVIRONMENTAL PROTECTION AND LAND USE PLANNING AGENCIES IN THE PLANNING PROCESS, AS WELL AS OTHER EFFORTS OF THE MONTANA POWER COMPANY TO IDENTIFY AND MINIMIZE ENVIRONMENTAL PROBLEMS AT THE EARLIEST POSSIBLE STAGE IN THE PLANNING PROCESS.[6]

IV-1 General Policy

The Montana Power Company's general policy and practice are to communicate and cooperate with state and federal agencies as well as citizen and public interest groups on all energy and environmental matters to the extent practical.

IV-2 Participation In Land Use and Environmental Planning

The Montana Power Company cooperates with state and federal government agencies regarding land use planning and environmental protection. For example, The Montana Power Company has participated in the multiple use plans of the United States Forest Service and the United States Bureau of Land Management. Montana Power Company also participates in a number of EPA activities, committees and seminars as well as committees of state agencies such as the Department of Health and Environmental Sciences.

The Montana Power Company also actively participates in a number of citizen groups concerned with the environment and the land use planning such as the Rock Creek Advisory Committee, the Natural Areas Committee, and the Montana Committee on Humanities.

---

6. Montana Utility Siting Act Section 70-814(1)(c)

Representatives of The Montana Power Company also participate in a number of industry associations and groups concerned with environmental and land use planning such as the Edison Electric Institute Environment and Energy Committee the NELPA Environmental Committee, and the American Right-of-way Association.

With regard to particular projects, such as the proposed Colstrip 3 and 4, The Montana Power Company cooperates and works with government agencies, citizen groups, and the general public in the development of such proposals.

V. PROJECTIONS OF THE DEMAND FOR SERVICES RENDERED BY THE MONTANA POWER COMPANY AND EXPLANATION OF THE BASIS FOR SUCH PROJECTIONS, AND A DESCRIPTION OF THE MANNER AND EXTENT TO WHICH THE PROPOSED FACILITIES WILL MEET THE PROJECTED DEMAND.[7]

V-1 General

The Montana Power Company's electric energy demand is expected to continue to increase at least at its present 5-6 percent annual rate of increase. This projection is consistent with national projections, and based on historical experience in Montana, known factors about Montana's future energy supply and demand, conservation and other particular factors.

The Montana Power Company is continuously monitoring the demand for electrical energy nationally, regionally, in Montana and on its own system.

7. Montana Utility Siting Act Section 70-814(1)(d); Montana Administrative Code Section 36-2.8(6)-S870(3)(4)

The Montana Power Company also continuously monitors its own load and resource projections. Attached hereto as Exhibits G and H are the load and resource projections as of February 25, 1975, for The Montana Power Company's system for each of the next ten years. These load and resource projections are presented both including Colstrip Units 3 and 4, Exhibit G, and excluding Colstrip Units 3 and 4, Exhibit H. These periodic load resource forecasts as shown in Exhibit in G and H are not a completely new forecast but rather are adjustments and updatings of Montana Power Company's forecasts to reflect anticipated additions or reductions in loads. These load and resource forecasts of The Montana Power Company are based on historical trends and are tested in light of other factors such as anticipated addition or reduction of known loads, weather, economic conditions, and many other factors. It is important to note that during the past 20 years such projections of The Montana Power Company have been very accurate and, if any thing, have been on the conservative side.

Each year The Montana Power Company also updates various graphs showing changes in electrical demand at each of its approximately 600 substations throughout its service area. The monthly peak and

average kilowatts used at each of these substations during 1974 are shown on the attached table marked Exhibit I entitled "1974 Peak and Average Kilowatt Readings for Distribution Substation". Future energy demand patterns of a substation unit area for annual increments for the next ten years are shown in the attached table marked Exhibit K entitled "Estimated Peak Substation Load in Kilowatts 1975-1985".[8] The area that each of the substation serves is indicated in map format and the substation identified by its installation number as required by the regulations.[9] The map showing the substations is marked Exhibit J.

The "NA" designation on Exhibit I indicate that the reading for that particular substation was not acceptable. Such a designation is a result of several possible reasons including that the substation reading was obviously incorrect or no reading was reported.

The Estimated Peak Substation Load shown on Exhibit "K" is based on a recording period from April to April. For this reason, the column headings are not listed as a singular year. This is done so that winter peaks may be recorded for the three consecutive winter months of December, January, and February; i.e., the 75-76 peaks

---

8. Montana Administrative Code, Section 36-2.8(6)-S870(4)

9. Montana Administrative Code, Section 36-2.8(6)-S870(3)

include December of 1975 and January, February of 1976. (January 1975 is not included) The peaks indicated are not coincidental. They represent the maximum peak reading anticipated for the year and may occur at any time during the year.

The basic projections were made by fitting a compound growth curve by means of a least squares fit to the existing data. The projections were then analyzed for their validity taking into consideration the number of years of data the projection was based on, recent trends in the area, and expected load additions. If a projection made by the computer is obviously not valid, a reasonable prediction is made based on historical and known load growth data for the area.

Projections based on continuous monitoring of substations and other factors are studied by Montana Power Company to determine what expansion programs are necessary on its system. Expansion programs may mean increasing transformer size for capability, adding additional transformers or building new substations, or building new transmission or generation facilities. New substation or a shifting of loads from substation to substation or transformer to transformer may give an erroneous impression of actual area growth. A careful analysis of changes which have taken place is

necessary to determine actual load growth in an area. To establish load growth rates, many factors must be considered and analysed. Weather conditions, extended outages, switching of loads, construction procedures, industrial and commercial development, urban development, development of residential subdivisions, irrigation and pumping, and air conditioning requirements are some of these factors which must be considered as they may affect load growth rates. When accurate substation growth rates are determined, then "load flow" computer programs are developed from these rates and are used as an aid in determining transmission line requirements.

When it appears that additional transmission lines or generation are needed as a result of this monthly and yearly monitoring of substation load changes and as a result of all of the many other factors such as weather conditions, extended outages switching of loads, industrial and commercial development, urban development, irrigation and pumping, etc., then more detailed studies of transmission line and generation requirements are made.

In addition to the continuous monitoring of entire system by monthly and yearly changes, the Montana Power Company also takes into consideration

the anticipated or trends in type of load growth. For example, Montana Power Company considers inquiries or requests for major additional loads from industrial or agricultural or other sources. The Montana Power Company also considers and anticipates that certain uses of electricity, such as the use of electricity for sprinkler irrigation or home heating, will create substantial additions to its load demand.

As evidenced by the above discussions, load projections for The Montana Power Company system are not done cavalierly, and, if anything, load projections are generally on the conservative side. The Montana Power Company in an attempt to fulfill its responsibility to provide electrical service to its customers, attempts to balance electrical resources against electrical load. This is done on both a peak and energy basis. Such forecasts must also include consideration of reserves which are required to make sure that the company can serve its customers at all times. The forecasts also take into account required down time of plants and facilities for maintenance and contracts of exchange with other utilities. When it is determined that a new source of generation or transmission is needed The Montana Power Company considers the alternatives for meeting these requirements and makes further

detailed studies regarding the needed facility. As pointed out in Section III above, such studies are often conducted in cooperation with other utilities in the region.

The general size and type of utility facilities to be owned and operated by The Montana Power Company, which are discussed in Section II above, are a result of all of these studies and considerations regarding projection and demand. If the facilities that are proposed in Section II above, are allowed to be built as scheduled by The Montana Power Company, such facilities should adequately meet the projected demand. For example, as shown on Exhibit G, if Colstrip 3 and 4 are not built, we will face serious peak and energy deficiences starting in 1979-80.

Exhibit No. A

GENERATION

	1975				1976		1977		1978	1979	1980	1981	1982	1983	1984
	1ST	2ND	3RD	4TH	1ST	2ND	1ST	2ND							
Colstrip #3	S	S	C	C	C	C	C	C	C	C					
Colstrip #4	S	S	C	C	C	C	C	C	C	C	C				
Kerr #4														C	C
Buffalo Rapids											C	C	C	C	
100 MW Gas Turbine													F	S	C
350 MW Coal Plant									F	S	C	C	C	C	C

F - File Application with DNR
S - DNR Study Time of Application
C - Construction

EXHIBIT "A"

Exhibit No. B

EXHIBIT "B"

THE MONTANA POWER COMPANY
GENERAL OFFICES: 40 EAST BROADWAY, BUTTE, MONTANA 59701 · TELEPHONE 406 | 723-5421
SERVING YOU IS OUR BUSINESS

May 3, 1974

Mr. Gary J. Wicks, Director
Department of Natural Resources and Conservation
32 South Ewing
Helena, Montana 59601

Dear Sir:

In the Long Range Plan filed by The Montana Power Company on April 1, 1974, pursuant to Section 14 of the Montana Utility Siting Act of 1973, it is stated on page 2:

"If Unit Nos. 3 and 4 are not built as proposed by the Applicants, The Montana Power Company is considering construction of a third 350 megawatt or larger unit to be constructed at Colstrip in 1979, and additional generation, probably gas turbines of 150 megawatt capacity, would be required somewhere on The Montana Power Company System to meet generation requirements by December 1978."

This implies that 150 megawatts of gas turbines in commercial operation by December 1978 plus an additional 350 megawatt or larger plant at Colstrip in commercial operation by mid-1979, would be a viable alternative to Colstrip Units Nos. 3 and 4 insofar as The Montana Power Company is concerned. Such is not now the case.

Because of regulatory time requirements, of changes in the availability of gas and oil on a worldwide basis, including Montana, the restrictions on the importation of gas from Canada and the priorities on the use of gas and oil fixed by Federal authorities, generation by gas turbines in 1978 now appears to be impractical, if not impossible.

Due to regulatory time requirements and the unavailability of machinery, equipment and material, it would not be possible to have a 350 megawatt or larger plant in commercial operation at Colstrip by mid-1979.

As you know, electric generating plants are not "shelf items". They must be engineered and manufactured on a custom basis. Deliveries of major items of equipment are now being projected at extremely long periods. For example,

we have just been informed that delivery time on a large dragline is now 86 months, 7 years. This is but illustrative of the problems involved in undertaking major construction.

When the time schedules involved in the regulatory process are considered with the projected delivery dates of equipment and time required for engineering and other necessary preliminary work, it appears that the construction of a 350 megawatt or larger plant for commercial operation by mid-1979 is not now possible.

The Montana Power Company is giving most serious consideration to the alternatives, if any, which may be open to it in order to serve the energy needs of the people of its service area if Colstrip Units Nos. 3 and 4 are not constructed in accordance with the projected schedules. It is obvious to us at this point in time that the projected combination of 150 megawatts of gas turbine capacity for 1978 plus an additional 350 megawatt, or larger, plant at Colstrip for 1979 is not a viable alternative to Colstrip Units Nos. 3 and 4.

We will be happy to discuss this matter with you at your convenience.

Very truly yours,

THE MONTANA POWER COMPANY

By _____
William H. Coldiron, Vice
President and General Counsel

cc: Mr. Joseph Sabol
Mr. Dean Hanson
Mr. Riley Ostby
Mr. Wilson F. Clark
Mr. Cecil Weeding
Mr. Owen E. Sowerwine
Mr. David Drum
Mr. Albert Taso

Exhibit No. C

F - File Application with DNR
S - DNR Study Time of Application
C - Construction

TRANSMISSION

	Approx. Length (Miles)	Voltage (kV)	1975 1st	1975 2nd	1975 3rd	1975 4th	1976 1st	1976 2nd	1977 1st	1977 2nd	1978	1979	1980	1981	1982	1983	1984
Billings-Gt. Falls 230 kV	180	230	C	C	C	C											
Mill Ck.-Arbiter 230 kV	4	230	S	C													
Wilsall-Clyde Park 161 kV	11	161	S	S	C	C	C										
Colstrip-Broadview 230 kV	115	230	C	C	C	C	C										
Clyde Park-Bozeman 161 kV "B" Line	30	161	S	S	S	C	C	C									
Clyde Park-Dillon 161 kV	150	161	S	S	S	S	S	C	C	C							
Broadview-Alkali Ck. 230 kV	18	230	S	S	S	S	C										
Colstrip-Broadview 500 kV #2	115	500	S	S	C	C	C	C	C	C							
Broadview-Hot Springs 2-500 kV	315	500	S	S	-	-	C	C	C	C	C	C					
Broadview-Roundup 100 kV	35	100		F	S	S	S	S	S	C							
Anaconda-Hamilton 161 kV	65	161	S	S	S	S	S	S	C	C	C						

EXHIBIT "C"

TRANSMISSION
Page 2

	Approx. Length (Miles)	Voltage (kV)	1975 1st	1975 2nd	1975 3rd	1975 4th	1976 1st	1976 2nd	1977 1st	1977 2nd	1978	1979	1980	1981	1982	1983	1984
Gt. Falls-Conrad 115 kV "B"	58	115		F	S	S	S	S	S	C	C						
Dry Creek-Belfry 50 kV	11	50							F	S	C						
East Bridger-Bridger	6	100					F	S	S	C							

F - File Application with DNR
S - DNR Study Time of Application
C - Construction

EXHIBIT "C"

Exhibit No. D

F-Filing Date
S-DNR Study
C-Construction

POTENTIAL TRANSMISSION PROJECTS FOR SYSTEM IMPROVEMENT

NAME	LENGTH (Approx)	VOLTAGE (kV)	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Ennis-Bozeman	54	161				C							
Billings-Great Falls "B"	180	230								F	S	C	
Bridger-Red Lodge-Nye	40	100					F	S	C				
Convert-Rimrock-Bellrock 8th Street	12	100									F	S	C
Bellrock-W. Billings	4	100									F	S	C
Benchland-Glengarry "B"	26	100	F	S	C	(Requirements hinge on current G & T studies being conducted.)							
Colstrip-Billings	100	230								F	S	C	
E. Gallatin-Trident (50 kV Rebuild)		50				F	S	C					
Conrad-Cut Bank	40	115				F	S	C					
Billings-Anaconda	225	230	F	S	C	C	(Necessary if 500 kV projects not approved.)						
Loop BPA through Rattlesnake	0.2	230				F	S	C					
Kerr-Hot Springs	25	230					F	S	C				
Anaconda-Philipsburg-Drummond	60	100			F	S	C	(Necessary if Anaconda-Hamilton 161 kV is not approved.)					

EXHIBIT "D"

F-Filing Date
S-DNR Study
C-Construction

POTENTIAL TRANSMISSION PROJECTS FOR SYSTEM IMPROVEMENT

NAME	LENGTH (Approx)	VOLTAGE (kV)	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Helena So. Side (Radial)	6	100				F	S	C					
Laurel Tie	15	230					F	S	C				
Water Pump East of Colstrip	10	115						F	S	C			
Sheridan-Renova (50 kV Rebuild)	35	50				F	S	C					
Helena Valley-E. Helena	10	100						F	S	C			
Loweth-White Sulphur	25	100									F	S	C
Assinniboine-Glasgow	175	161								F	S	C	
Geraldine-Fort Benton-Stanford	65	69									F	S	C
Madison Plant-Trident (50 kV Rebuild)	35	50				F	S	C					
Canyon Ferry Tap-Gt. Falls (2 lines-reconductor)	70	100				F	S	C					
Glengarry-Lewistown "A"	10	100				F	S	C					

EXHIBIT "D"

F-Filing Date
S-DNR Study
C-Construction

POTENTIAL TRANSMISSION PROJECTS FOR SYSTEM IMPROVEMENT

NAME	LENGTH (Approx)	VOLTAGE (kV)	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Glengarry-Lewistown "B"	10	100				F	S	C					
Plains-Superior	25	100		F	S	C							
Billings-Hardin	50	115											

EXHIBIT "D"

Exhibit No. E

TRANSMISSION PROJECTS FOR POTENTIAL LARGE ELECTRIC LOADS

NAME	PROBABLE VOLTAGE (kV)
Dillon-Salmon Tie "A" Line	161
Dillon-Salmon Tie "B" Line	161
Columbus-Nye (2 lines)	161
Helena-Mill Creek	230
Helena-Great Falls	230
Rattlesnake-Waldorf "A" Line	161
Rattlesnake-Waldorf "B" Line	161
Heddleston-Lincoln Area	230
Ennis-Sheridan	100
Montana St. Sub-Divide	100
Thompson Falls Area	230
Gold Creek Area	Unknown
Chinook Area	161
Glasgow Area	69
Dillon Area	161
Colstrip Area	230
Conrad Area	115
Rocker Area	100
Ennis-Hebgen	161
Glasgow-Colstrip	230
Malta Area	Unknown
Dillon-Elkhorn	69
Billings-Hardin	115
Nye-Mystic	161
Nichols Area	Unknown

Exhibit No. F

EXHIBIT "F"

PACIFIC NORTHWEST - WEST GROUP AREA
Energy Load and Resources
Critical Hydro Conditions
(Megawatts)

EXISTING AND UNDER CONSTRUCTION

	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86
Critical Period Energy Load	14625	15418	16396	17370	18196	19002	19879	20728	21623	22581	23559
Energy Resources 1/	13846	14615	14862	15012	15555	15767	15944	16083	16075	16054	15972
Energy Surplus or(Deficit)	(779)	(803)	(1534)	(2358)	(2641)	(3235)	(3935)	(4645)	(5548)	(6527)	(7587)
Hydro Under Construction (included above)											
Ice Harbor Additions	-	-	-	-	-	-	-	-	-	-	-
Lower Granite	171	-	-	-	-	-	-	-	-	-	-
Grand Coulee 3rd Powerplant	81	-	-	-	-	-	-	-	-	-	-
Libby	173	16	-	-	-	-	-	-	-	-	-
Lost Creek	7	16	-	-	-	-	-	-	-	-	-
Teton	1	9	-	-	-	-	-	-	-	-	-
Chief Joseph Additions	-	-	13	51	-	-	-	-	-	-	-
Little Goose Additions	-	-	6	-	-	-	-	-	-	-	-
Bonneville 2nd Powerplant	-	-	-	-	-	-	36	-	-	-	-
Lower Monumental	-	-	-	2	-	-	-	-	-	-	-
Total Hydro U. C.	433	41	19	53	-	-	36	-	-	-	-
Thermal Under Construction (included above)											
Combustion Turbines PGE	-	-	72	79	-	-	-	-	-	-	-
WNP #2	-	-	-	-	497	287	41	-	-	-	-
Trojan	383	-	-	-	-	-	-	-	-	-	-
Colstrip #1 and #2	112	150	51	3	-	-	-	-	-	-	-
Jim Bridger #2	21	284	70	-	-	-	-	-	-	-	-
Jim Bridger #3	-	-	300	75	-	-	-	-	-	-	-
Total Thermal U. C.	516	434	493	157	497	287	41	-	-	-	-
Total Under Construction	949	475	512	210	497	287	77	-	-	-	-
Cumulative Under Const.	949	1424	1936	2146	2643	2930	3007	-	-	-	-

PLANNED OR PROPOSED

	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86
Hydro Planned or Proposed (not included above)											
Libby Additions	-	-	-	-	-	-	-	-	-	-	-
Rock Island Additions	-	15	100	9	-	-	-	-	-	-	-
Libby Reregulating	-	-	-	-	-	-	-	20	10	-	-
Noxon Additions	-	-	-	-	-	-	-	-	-	-	-
Total Hydro	-	15	100	9	-	-	-	20	10	-	-
Thermal Planned or Proposed (not included above)											
Jim Bridger #4	-	-	-	-	169	73	8	-	-	-	-
Colstrip #3 and #4	-	-	-	-	273	362	95	6	-	-	-
Carty Coal	-	-	-	-	-	300	75	-	-	-	-
WNP #1	-	-	-	-	-	-	-	565	326	47	-
WNP #3	-	-	-	-	-	-	-	630	272	28	-
Pebble Springs #1	-	-	-	-	-	-	-	756	189	-	-
Skagit #1	-	-	-	-	-	-	-	291	555	120	-
WNP #4	-	-	-	-	-	-	-	-	159	631	148
WNP #5	-	-	-	-	-	-	-	-	210	587	133
Skagit #2	-	-	-	-	-	-	-	-	-	291	555
Pebble Springs #2	-	-	-	-	-	-	-	-	-	-	756
Total Thermal	-	-	-	-	442	735	178	2248	1711	1704	1592
Total Planned or Proposed	-	15	100	9	442	735	178	2268	1721	1704	1592
Cumulative Planned or Proposed	-	15	115	124	566	1301	1479	3747	5468	7172	8764
Energy Surplus or (Deficit) Total Program	(779)	(788)	(1439)	(2234)	(2075)	(1934)	(2456)	(898)	(80)	645	1177

1/ Includes peak capability of existing and under construction projects, less reserves and net effect of imports and exports.

NOTE: Data based on West Group Forecast - February 1, 1975

BPA - Branch of Power Resources
February 12, 1975

PACIFIC NORTHWEST -- WEST GROUP AREA
Peak Loads and Resources
Critical Hydro Conditions
(Megawatts)

EXISTING AND UNDER CONSTRUCTION

	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86
Peak Load	22,491	23,722	25,220	26,683	28,139	29,515	30,950	32,418	33,907	35,483	37,154
Peak Resources 1/	22,487	23,720	25,710	27,613	28,766	28,159	28,361	27,879	27,338	27,009	26,678
Peak Surplus or Deficit	(4)	(2)	490	930	627	(1,356)	(2,589)	(4,539)	(6,569)	(8,474)	(10,476)
Under Construction											
Hydro (Included Above)											
Ice Harbor Additions	383	-	-	-	-	-	-	-	-	-	-
Lower Granite	466	-	154	310	-	-	-	-	-	-	-
Grand Coulee 3rd Powerplant	666	1,314	1,544	741	-	-	-	-	-	-	-
Libby	312	94	-	-	-	-	-	-	-	-	-
Lost Creek	-	56	-	-	-	-	-	-	-	-	-
Teton	-	20	-	-	-	-	10	-	-	-	-
Chief Joseph Additions	-	-	353	676	103	-	-	-	-	-	-
Little Goose Additions	-	-	-	464	-	-	-	-	-	-	-
Bonneville 2nd Powerplant	-	-	-	-	-	-	389	161	-	-	-
Lower Monumental	-	-	-	-	464	-	-	-	-	-	-
Total Hydro U.C.	1,827	1,484	2,051	2,191	567	-	399	161	-	-	-
Thermal (Included Above)											
Combustion Turbines PGE	-	-	150	-	-	-	-	-	-	-	-
WNP #2	-	-	-	-	1,100	-	-	-	-	-	-
Trojan	1,130	-	-	-	-	-	-	-	-	-	-
Colstrip #1	165	-	-	-	-	-	-	-	-	-	-
Jim Bridger #2	-	500	-	-	-	-	-	-	-	-	-
Colstrip #2	-	165	-	-	-	-	-	-	-	-	-
Jim Bridger #3	-	-	500	-	-	-	-	-	-	-	-
Total Thermal U.C.	1,295	665	650	-	1,100	-	-	-	-	-	-
Total Under Construction	3,122	2,149	2,701	2,191	1,667	-	399	161	-	-	-
Cumulative Under Const.	3,122	5,271	7,972	10,163	11,830	11,830	12,229	12,390	-	-	-

PLANNED OR PROPOSED

Planned or Proposed											
Hydro (Not Included Above)											
Libby Additions	-	-	-	-	-	-	-	198	180	-	-
Rock Island Additions	-	-	281	106	-	-	-	-	-	-	-
Libby Reregulating	-	-	-	-	-	-	-	36	14	-	-
Noxon Additions	-	-	107	-	-	-	-	-	-	-	-
Total Hydro	-	-	388	106	-	-	-	234	194	-	-
Thermal (Not Included Above)											
Jim Bridger #4	-	-	-	-	333	-	-	-	-	-	-
Colstrip #3	-	-	-	-	490	-	-	-	-	-	-
Colstrip #4	-	-	-	-	-	490	-	-	-	-	-
Carty Coal	-	-	-	-	-	500	-	-	-	-	-
WNP #1	-	-	-	-	-	-	-	1,250	-	-	-
WNP #3	-	-	-	-	-	-	-	1,240	-	-	-
Pebble Springs #1	-	-	-	-	-	-	-	1,260	-	-	-
Skagit #1	-	-	-	-	-	-	-	-	1,288	-	-
WNP #4	-	-	-	-	-	-	-	-	-	1,250	-
WNP #5	-	-	-	-	-	-	-	-	-	1,240	-
Skagit #2	-	-	-	-	-	-	-	-	-	-	1,288
Pebble Springs #2	-	-	-	-	-	-	-	-	-	-	1,260
Total Thermal	-	-	-	-	823	990	-	3,750	1,288	2,490	2,548
Total Planned or Proposed	-	-	388	106	823	990	-	3,984	1,482	2,490	2,548
Cumulative Planned or Proposed	-	-	388	494	1,317	2,307	2,307	6,291	7,773	10,263	12,811
Peak Surplus or (Deficit) Total Program	(4)	(2)	878	1,424	1,944	951	(282)	1,752	1,204	1,789	2,335

1/ Includes energy capability of existing and under construction projects, less reserves and net effect of imports and exports.

NOTE: Data based on West Group Forecast - February 1, 1975

BPA - Branch of Power Resources
February 13, 1975

Exhibit No. G

RCS
2/25/75

THE MONTANA POWER COMPANY

LOADS and RESOURCES
(Including Units 3 & 4)
AVERAGE ENERGY (MW)

Ref: 11-1-74 Forecast(Rev. 2-25-75)

Operating Year (July-June)	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86
Firm Energy Load	657	684	721	780	843	894	934	977	1022	1068	1117
Resources											
Hydro-Critical	337	337	337	337	337	337	337	337	337	337	337
Bird	157	157	157	157	157	157	157	157	157	157	157
Corette	103	165	165	165	165	165	165	165	165	165	165
*Colstrip No. 1	-	145	165	165	165	165	165	165	165	165	165
*Colstrip No. 2	-	-	-	-	184	210	210	210	210	210	210
*Colstrip No. 3	-	-	-	-	-	184	210	210	210	210	210
*Colstrip No. 4	40	40	35	30	20	10	5	-	-	-	-
**BPA (100%)	10	10	11	11	12	12	13	13	14	14	15
BPA (Wheeling)	11	-	-	-	-	-	-	-	-	-	-
BPA (offsets)	-3	-	-	-	-	-	-	-	-	-	-
MDP (Manf. Trade)	4	-5	-	-	-	-	-	-	-	-	-
Puget	3	-	-	-	-	-	-	-	-	-	-
Hanford (Debt Service)	49	49	16	-	-	-	-	-	-	-	-
Hanford (Extension)	5	-	-	-	-	-	-	-	-	-	-
Hanford (5-mill)	-	-	-	-	-	-	-	-	-	-	-
WPPSS #1	-	-	-	-	-	68	68	68	68	68	68
**BPA (ENERGY for Peak Trd.)				-14	-19	-19	-19	-19	-19	-19	-19
Total Resources	716	898	886	851	1021	1289	1311	1306	1307	1307	1308
Surplus over firm load with Critical water	59	214	165	71	178	395	377	329	285	239	191
Less Maintenance	31	31	31	31	45	45	62	62	62	62	62
Less Reserves	30	30	30	30	42	54	54	54	54	54	54
Interruptible included in above Reserves	13	14	15	16	17	18	19	21	22	24	25
Surplus over firm load, reserves, & Maint. w/Crit. H_2O	(2)	153	104	10	91	296	261	213	169	123	75
Median Water Adder	48	50	51	51	51	51	51	51	51	51	51
BIRD (Maintenance deducted) (Only if oil is available)	64	64	64	64	64	64	64	64	64	64	64

* Colstrip No. 1 operational Oct. 1, 1975; 50% 1st 3 months
** Currently under negotiation.

* Colstrip No. 2 operational July 1, 1976; 50% 1st 3 months
Colstrip No. 3 Operational July 1, 1979
Colstrip No. 4 Operational July 1, 1980

EXHIBIT "G"

THE MONTANA POWER COMPANY

LOADS and RESOURCES
(Including Units 3 & 4)
ANNUAL PEAK (MW)

Operating Year (July-June) — Ref: 11-1-74 Forecast(Rev. 2-25-75)

	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86
Firm Peak Load	967	1000	1037	1119	1206	1298	1360	1424	1492	1563	1639
Resources											
Hydro	520	520	520	520	520	520	520	520	520	520	520
Bird	70	70	70	70	70	70	70	70	70	70	70
Corette	180	180	180	180	180	180	180	180	180	180	180
* Colstrip No. 1	165	165	165	165	165	165	165	165	165	165	165
* Colstrip No. 2	-	165	165	165	165	165	165	165	165	165	165
* Colstrip No. 3	-	-	-	-	210	210	210	210	210	210	210
* Colstrip No. 4	-	-	-	-	-	210	210	210	210	210	210
BPA (100%)	40	40	40	40	40	40	40	40	40	40	40
BPA (0%)	10	10	10	10	10	10	10	10	10	10	10
BPA (wheeling)	6	7	7	7	8	8	8	9	9	9	10
MMP	30	-	-	-	-	-	-	-	-	-	-
Puget	19	-	-	-	-	-	-	-	-	-	-
Hanford (Debt Service)	39	41	42	42	43	-	-	-	-	-	-
Hanford (Extension)	84	84	-	-	-	-	-	-	-	-	-
MPPS #1	-	-	-	-	-	80	80	80	80	80	80
** BPA (Offset for Peak Trd.)	-	-	-	60	-	-	-	-	-	-	-
** BPA (Energy for Peak Trd.)	-	-	-	100	100	100	100	100	100	100	100
Total Resources	1163	1282	1199	1359	1511	1758	1758	1759	1759	1759	1760
Surplus over Firm Load	196	282	162	240	305	460	398	335	267	196	121
Less Maintenance	11	8	8	8	8	8	8	8	8	8	8
Less Reserves	116	130	145	168	193	221	245	270	298	312	328
Interruptible Included in above Reserves	15	17	18	19	21	22	24	25	27	29	31
Surplus over firm load, reserves, & Maintenance	69	144	9	64	104	231	145	57	(39)	(124)	(215)

* Colstrip No. 1 Operational Oct. 1, 1975 — Colstrip No. 2 Operational July 1, 1976
** Currently under negotiation.

* Colstrip No. 3 Operational July 1, 1979
Colstrip No. 4 Operational July 1, 1980

EXHIBIT

EXHIBIT "G"

Exhibit No. H

RCS
2/25/75

THE MONTANA POWER COMPANY

LOADS and RESOURCES
(Excluding Units 3 & 4)
AVERAGE ENERGY (MW)

Operating Year (July-June) — Ref: 11-1-74 Forecast (Rev. 2-25-75)

	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86
Firm Energy Load	657	684	721	780	843	894	934	977	1022	1068	1117
Resources											
Hydro-Critical	337	337	337	337	337	337	337	337	337	337	337
Bird											
Corette	157	157	157	157	157	157	157	157	157	157	157
*Colstrip No. 1	103	165	165	165	165	165	165	165	165	165	165
*Colstrip No. 2	-	145	165	165	165	165	165	165	165	165	165
**BPA (100%)	40	40	35	30	20	10	5	-	-	-	-
BPA (wheeling)	10	10	11	11	12	12	13	13	14	14	15
BPA (offsets)	11	-	-	-	-	-	-	-	-	-	-
WWP (Hanf. Trade)	-3	-	-	-	-	-	-	-	-	-	-
Puget	4	-5	-	-	-	-	-	-	-	-	-
Hanford (Debt Service)	3	-	-	-	-	-	-	-	-	-	-
Hanford (Extension)	49	49	16	-	-	-	-	-	-	-	-
Hanford (5-mill)	5	-		-	-	-	-	-	-	-	-
WPPSS #1	-	-	-	-	-	68	68	68	68	68	68
**BPA (ENERGY for Peak Trd.)	-	-		-14	-19	-19	-19	-19	-19	-19	-19
Total Resources	716	898	886	851	837	895	891	886	887	887	888
Surplus over firm load with Critical water	59	214	165	71	(6)	1	(43)	(91)	(135)	(181)	(229)
Less Maintenance	31	31	31	31	31	31	31	31	31	31	31
Less Reserves	30	30	30	30	30	30	30	30	30	30	30
Interruptible included in above Reserves	13	14	15	16	17	18	19	21	22	24	25
Surplus over firm load, reserves, & Maint. w/Crit. H_2O	(2)	153	104	10	(67)	(60)	(104)	(152)	(196)	(242)	(290)
Median Water Adder	48	50	51	51	51	51	51	51	51	51	51
BIRD (Maintenance deducted) (Only if oil is available)	64	64	64	64	64	64	64	64	64	64	64

* Colstrip No. 1 operational Oct. 1, 1975; 50% 1st 3 months — Colstrip No. 2 operational July 1, 1976; 50% 1st 3 months

** Currently under negotiation.

EXHIBIT

EXHIBIT "H"

RCS
2/25/75

THE MONTANA POWER COMPANY

LOADS and RESOURCES
(Excluding Units 3 & 4)
ANNUAL PEAK (MW)

Operating Year (July-June) — Ref: 11-1-74 Forecast(Rev. 2-25-75)

	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86
Firm Peak Load	967	1000	1037	1119	1206	1298	1360	1424	1492	1563	1639
Resources											
Hydro	520	520	520	520	520	520	520	520	520	520	520
Bird	70	70	70	70	70	70	70	70	70	70	70
Corette	180	180	180	180	180	180	180	180	180	180	180
* Colstrip No. 1	165	165	165	165	165	165	165	165	165	165	165
* Colstrip No. 2	-	165	165	165	165	165	165	165	165	165	165
BPA (100%)	40	40	40	40	40	40	40	40	40	40	40
BPA (0%)	10	10	10	10	10	10	10	10	10	10	10
BPA (wheeling)	6	7	7	7	8	8	8	9	9	9	10
WWP	30	-	-	-	-	-	-	-	-	-	-
Puget	19	-	-	-	-	-	-	-	-	-	-
Hanford (Debt Service)	39	41	42	42	43	-	-	-	-	-	-
Hanford (Extension)	84	84	-	-	-	-	-	-	-	-	-
WPPS #1	-	-	-	-	-	80	80	80	80	80	80
** BPA (Offset for Peak Trd.)	-	-	-	60	-	-	-	-	-	-	-
** BPA (Energy for Peak Trd.)	-	-	-	100	100	100	100	100	100	100	100
Total Resources	1163	1282	1199	1359	1301	1338	1338	1339	1339	1339	1340
Surplus over Firm Load	196	282	162	240	95	40	(22)	(85)	(153)	(224)	(299)
Less Maintenance	11	8	8	8	8	8	8	8	8	8	8
Less Reserves	116	130	145	168	193	221	245	270	298	312	328
Interruptible Included in above Reserves	15	17	18	19	21	22	24	25	27	29	31
Surplus over firm load, reserves, & Maintenance	69	144	9	64	(106)	(189)	(275)	(363)	(459)	(544)	(635)

* Colstrip No. 1 Operational Oct. 1, 1975 — Colstrip No. 2 Operational July 1, 1976
** Currently under negotiation.

EXHIBIT

EXHIBIT "I"

Exhibit No. 1

Top Reading Peak
Lower Reading Average

BUTTE DIVISION

1974 PEAK AND AVERAGE KILOWATT READINGS FOR DISTRIBUTION SUBSTATIONS

Inst. No.	Substation	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
1-232	Mont. St. Bk. 1	5856	4800	4512	4944	4128	3936	3936	4224	4224	4800	5040	5232
		3717	3079	3142	3019	2707	2620	2606	2615	2735	2938	3208	3405
1-233	Mont. St. Bk. 2	3744	3360	3264	3168	3168	3168	2976	3072	3264	3264	3072	2928
		2333	2021	2135	1974	1933	1953	1931	1933	2035	2021	2108	2124
1-234	Mont. St. Bk. 3	4512	4128	4032	4032	3840	3936	3744	3840	3936	4608	4992	4896
		3000	2593	2703	3135	1747	2380	2343	2356	2524	2745	3069	3189
1-235	Mont. St. Bk. 4	6528	6144	5952	5760	5568	5952	6144	6336	6528	6336	6912	5760
		4600	4157	4297	4077	4053	3867	4183	4326	4471	4124	4585	4195
1-280	Cont. Dr. Bk. 1	2400	1824	1776	1728	1728	1560	1920	1728	1776	2064	N.A.	2520
		1381	1132	1142	1065	1037	1010	985	1003	1056	1152	N.A.	1311
1-285	Cont. Dr. Bk. 2	4848	3960	3960	3600	3600	2880	2880	3600	3600	3696	4560	5280
		3189	2693	2423	2765	2427	N.A.	N.A.	2328	2466	2669	2721	3068
1-190	Pacific St.	5664	5760	5520	5184	5136	5280	5280	5184	5184	5472	5472	5568
		3950	3479	3652	3400	3380	3347	3309	3304	3400	3497	3723	3778
1-221	Concent. Bk. 1 Ana	7900	8000	8500	8400	8400	8500	8400	8400	8400	8500	8500	8500
		7160	7280	7676	N.A.	7069	7454	7053	N.A.	7235	7287	7826	7251
1-222	Concent. Bk. 2 Ana	8200	8300	8400	8400	8300	8300	8200	8100	8200	7800	8400	8400
		7386	7546	7436	8464	6789	7201	6567	8391	7185	6614	8850	6907
1-223	Concent. Bk. 3 Ana	7700	7700	7600	7400	7400	7400	7400	7300	7600	7800	8000	8000
		6987	7371	6780	7570	6255	6680	6028	7617	6828	6672	7758	7435
1-224	Concent Bk. 4 Ana	4300	5000	5100	4900	4300	4800	4300	4600	4400	4590	4600	4400
		3592	3793	3668	4118	3182	3481	3104	3888	3459	3420	3769	3699
1-225	Concent. Bk. 5 Ana	6000	6200	6300	6100	6100	6300	6400	6500	6200	6200	6020	6300
		4218	4882	4839	5280	4357	4732	4556	5558	4660	4602	4426	3236

EXHIBIT "I"

Top reading Peak
Lower reading Average

BUTTE DIVISION (Contd.)

Inst. No.	Substation	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
1-651	Corra Bk. 1 Ana	6560	6240	6400	6320	6240	6240	5840	6000	6240	6080	6360	6320
		3838	3833	3869	4073	3531	2619	4044	.3903	2731	3126	3812	3991
1-652	Corra Bk. 3 Ana	2100	2190	1950	2100	1700	2100	1650	1800	2300	1750	2600	2580
		1003	952	841	1098	694	912	547	847	935	866	1111	1199
1-653	Corra Bk. 5 Ana	3550	3750	3800	3700	3400	3550	3700	3700	3750	3600	2900	2700
		2769	2789	2720	2960	2441	2618	2407	3019	2595	2589	2954	1111
1-663	Kelly Mine Ana	8900	9000	8900	9250	8900	9000	8550	8500	8450	8200	7300	7200
		7154	7374	7250	8000	6482	7073	6067	7515	6214	6441	6012	5868
1-661	Kelly Comp. 1 Ana	7400	8750	7200	7400	7100	7200	7400	6250	7600	7600	6100	6700
		5663	5628	5411	5935	4766	5366	4890	6129	5365	5389	5096	4501
1-662	Kelly Comp. 2 Ana	7400	6400	7300	7400	7100	7200	7400	6250	7600	7600	6100	6700
		5683	5628	N.A.	N.A.	4727	3780	6306	6122	5419	5463	5173	4560
1-332	Hayes St. Ana	750	890	890	840	1260	1230	830	820	1010	1040	1020	940
		298	385	399	514	370	382	351	458	366	509	529	515
1-240	Tail. Booster Ana	3900	5000	5100	5200	4500	5200	4450	4400	4900	5100	5700	5350
		3426	3485	3588	3764	3083	3549	3136	4118	3641	3756	4812	3634
1-290	Ramsay Pump Ana	910	610	620	640	990	1130	1140	680	660	920	900	1140
		299	286	271	180	163	283	424	319	178	161	150	175
1-215	Ana. Smelter Ana.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
		N.A.	N.A.	N.A.	N.A.	9766	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1-216	Comp. Sub. Smelter	N.A.	N.A.	N.A.	N.A.	10440	N.A.	10260	9900	N.A.	N.A.	N.A.	N.A.
		N.A.	4768	3241	N.A.	8039	8384	7875	9968	7979	8017	6639	8036
1-241	Crshr. Sub-Bk. 1 Ana	2000	2240	2400	2400	2400	2400	2400	2240	2240	2240	2400	2400
		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1-242	Crshr. Sub- Bk. 2 Ana	1728	1344	576	960	768	576	960	960	1152	1440	672	1440
		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

BUTTE DIVISION (Contd.)

Inst. No.	Substation	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
1-243	Precip Sub Bk. 1	10320	10320	10800	10800	10560	10080	9600	9840	9840	9840	9600	9600
		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1-244	Precip. Sub Bk. 2	2400	2760	2760	2280	2400	2400	2400	2400	2400	2400	2280	2280
		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1-94	Ana. City Sub	N.A.	N.A.	N.A.	N.A.	2519	2445	2668	2593	2519	3112	2964	3038
		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1-91	Ana. City No. 1	3048	2640	2688	2808	2808	2856	2832	2760	2736	3384	3720	2928
		1925	1714	1687	1617	1506	1493	1452	1452	1582	1697	1577	1294
1-92	Ana. City No. 2	2808	2232	2112	2232	2064	1968	2088	2256	2088	2376	2784	3408
		1772	1571	1555	1483	1378	1377	1400	1485	1500	1542	1700	2161
1-310	Divide	1944	2160	1944	1944	1296	1944	2592	N.A.	2160	2160	2160	2160
		1227	1306	1318	1277	878	945	1510	N.A.	1459	1300	1423	1440
1-590	Divide W/BPA	765	598	216	198	616	288	297	288	283	247	261	256
		497	412	N.A.	139	129	174	209	201	194	146	157	181
1-120	Deer Lodge - Mil. Shop	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	308	344
		N.A.	320	271	263	245	N.A.	881	N.A.	N.A.	N.A.	71	254
1-131	D. L. City 4.16 kV	1824	1728	1776	1632	1680	N.A.	N.A.	N.A.	1824	N.A.	2064	2208
		1461	1259	1200	1143	1157	N.A.	N.A.	N.A.	1117	N.A.	1231	1453
1-132	D. L. City 12.5 kV	2112	1920	2976	1680	1776	N.A.	1824	N.A.	1536	N.A.	N.A.	1488
		N.A.	N.A.	1168	1121	979	N.A.	N.A.	N.A.	N.A.	N.A.	652	763
1-140	D. L. Gas Pump	1020	1308	1428	648	744	N.A.	960	N.A.	N.A.	N.A.	1008	1728
		N.A.	884	775	482	353	N.A.	270	N.A.	330	N.A.	480	976
1-160	Mont. Phos. Sub	1836	1944	1836	1836	1944	2052	1890	1836	1620	1512	1566	1782
		1335	1270	1262	1223	1366	1350	1203	1172	982	1009	1089	1270
1-170	Gold Creek	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
		1537	1334	1215	898	728	758	1082	814	178	138	132	138

BUTTE DIVISION (Contd.)

Inst. No.	Substation	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
1-181	Drummond City	1464 948	1224 781	1248 750	1056 550	1224 647	1344 921	1368 840	1416 895	1104 611	1008 536	984 598	1056 658
1-540	Drummond W/BPA	N.A. N.A.	N.A. N.A.	N.A. N.A.	1800 1109	1600 1027	1650 1201	1800 1221	2000 1426	1550 1075	1550 788	1750 1813	1850 1354
1-183	Drummond Pump	864 245	864 223	864 125	816 N.A.	864 113	912 267	864 200	864 268	864 161	N.A. N.A.	N.A. N.A.	864 177
1-380	Foster Creek	810 555	870 491	870 468	690 362	690 328	450 225	420 177	630 205	540 250	660 306	780 407	780 431
1-360	Philipsburg City	1168 713	1072 702	928 529	960 611	816 518	832 449	688 443	688 471	720 410	800 516	960 566	1056 611
1-592	Stone Creek W/BPA	N.A. N.A.	N.A. N.A.	N.A. N.A.	N.A. N.A.	N.A. N.A.	1800 1143	2016 1516	1944 1526	1272 835	1488 848	1680 970	N.A. N.A.
1-570	Bannack Rea	1728 1100	1392 1077	1392 939	1320 840	1056 694	936 610	960 567	984 623	960 600	960 646	1272 824	1392 927
1-600	Silver Star Rea	N.A.	N.A. 238	369 231	315 217	N.A. 234	351 N.A.	391 267	445 310	301 193	270 148	175 122	189 131
1-610	Whitehall Rea	666 402	490 333	535 358	490 326	742 377	805 578	882 591	369 577	364 218	301 184	301 147	261 151
1-580	Dillon Rea	2232 1521	1800 1282	2412 N.A.	2772 1718	N.A. 2061	N.A. N.A.	3648 2770	3624 2639	2472 1473	2064 1567	1704 921	1944 1717
1-530	Dell Rea	927 648	819 586	828 563	792 540	1089 510	1170 950	1017 N.A.	1071 819	819 467	801 486	603 405	666 447
1-421	Dillon City 4.16 kV	5520 3333	4704 2992	4608 2900	4128 2565	N.A. N.A.	3552 N.A.	3552 2245	3504 2224	3792 2430	4368 2671	4992 3000	5088 3296
1-422	Dillon City 12.5 kV	1872 1277	1872 1400	1872 1393	1872 1271	N.A. N.A.	2592 N.A.	N.A. N.A.	2664 N.A.	2592 1633	2376 1326	2448 1236	2520 1444

BUTTE DIVISION (Contd.)

Inst. No.	Substation	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
1-425	Dillon Airport	36	27	27	27	270	612	369	531	495	495	36	27
		20	16	16	16	147	390	N.A.	N.A.	303	128	17	21
1-430	Point of Rocks	378	297	297	324	918	1512	1417	1593	1377	904	324	580
		N.A.	223	225	214	385	1107	1067	1345	865	518	212	396
1-440	Sheridan	1600	1400	1200	1200	1440	1600	1400	1600	1600	1200	1400	1400
		1022	920	914	794	856	990	914	928	887	782	817	899
1-500	Virginia City	270	240	240	240	270	360	360	390	390	252	240	300
		146	137	134	127	217	N.A.	203	218	155	129	140	147
1-451	Twin Bridges	954	720	747	666	684	792	792	702	837	684	756	756
		600	597	368	402	463	332	N.A.	N.A.	574	465	491	530
1-480	Whitehall	1040	880	864	760	800	752	800	800	696	N.A.	360	360
		677	600	609	598	509	563	598	533	491	N.A.	N.A.	231
1-291	Renova Dist.	477	378	396	378	630	765	828	783	855	873	954	360
		281	245	244	283	350	495	537	507	565	443	368	204

GREAT FALLS DIVISION

Inst. No.	Substation	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
2-131	City Sub - No. Bk.	9288	10476	8208	7992	7128	9180	11124	10692	7992	8856	6912	7128
		5384	5121	4950	4544	4224	4857	5780	5661	5255	5175	4185	4297
2-132	City Sub - So. Bk.	13068	11016	9072	10368	10368	14472	14904	14904	7560	6912	7236	7452
		7409	6828	6720	6794	7040	8209	7692	5269	5066	4875	4530	4834
2-141	East Side - So. Bk.	7992	6156	5292	3672	3996	4860	5292	5292	4536	5076	5616	5940
		4159	3263	3090	2497	2497	2809	3206	2860	2918	3030	3255	3527
2-142	East Side - No. Bk.	9180	12096	6912	6480	6480	6588	6696	6804	6588	7668	8208	8748
		5229	4789	4470	3977	3890	3879	4092	3963	4137	4350	4695	4979
2-150	So. Side - E. Bk.	6336	7536	6720	7872	9408	12624	11088	9984	8160	10848	11616	11760
		3379	3152	3290	4929	4858	5648	6075	5542	5258	5800	7573	7613
2-151	So. Side - W. Bk.	6048	3888	4896	4320	4032	2880	3744	3168	2736	4608	4176	5760
		3807	3352	3248	2894	2381	1707	1969	1510	1645	2130	2560	2894
2-1310	Northwest Sub	10368	8832	8448	8256	9600	10176	10368	10752	9216	9120	10176	9696
		6469	6055	6083	5884	6194	6897	7225	6227	6213	6053	6248	6663
2-1020	Black Eagle Sub	17220	19740	13440	10500	10780	N.A.	14700	14420	15260	16240	17220	N.A.
		N.A.	5917	7075	5581	5495	5406	6831	7997	8342	8618	8769	N.A.
2-1026	Philips Refinery	2010	1920	1880	1960	1980	2000	2020	2080	2100	2030	2000	2020
		1858	1806	1790	1824	1733	1902	1854	1901	1971	1913	1902	1905
2-1360	Malmstrom AFB	7200	6840	6048	5040	5976	5508	5616	5760	5760	5652	5832	5760
		N.A.	4767	4479	N.A.	N.A.	3795	3745	4761	3730	N.A.	4280	N.A.
2-1030	Highwood REA	780	720	678	600	552	540	N.A.	528	546	660	690	756
		536	464	464	397	366	375	N.A.	358	367	376	438	484
2-100	Mission Road	2196	2160	1692	1512	1512	1404	1512	1692	1620	1765	1836	2124
		1470	1251	1258	1122	1096	1061	1133	1093	1069	1180	1292	1428

GREAT FALLS DIVISION (Contd.)

Inst. No.	Substation	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
2-101	Adel (Cascade)	102	90	102	96	156	150	270	300	204	N.A.	72	72
		64	51	N.A.	N.A.	58	53	126	77	62	33	29	N.A.
2-160	Wayne Pump (Fife)	984	960	504	480	984	492	432	432	456	912	984	480
		663	482	200	377	352	395	335	342	375	368	758	326
2-170	Raynesford Pump	3328	3232	3008	1920	3328	3264	1280	1920	1984	3296	3360	3360
		2547	2224	1970	1560	2440	1729	1058	1382	1518	N.A.	N.A.	2077
2-180	Monarch Valley	564	504	528	450	498	432	432	480	534	528	528	648
		372	329	324	294	298	315	281	307	309	385	289	306
2-191	Kings Hill (Old T Bar)	179	186	179	179	70	26	25	26	26	38	51	154
		32	25	24	21	9	2	N.A.	8	5	5	N.A.	N.A.
2-261	Vaughn	996	876	828	792	768	1080	1140	732	612	708	696	1032
		603	562	541	510	483	568	633	385	385	407	440	564
2-290	Papin Gravel	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2-300	Ashuelot W/BR	2772	2772	2052	2052	1728	1692	1746	1836	1602	1800	1998	2340
		1735	1495	1385	1316	1088	1052	1223	905	1060	1078	1181	1450
2-310	Fort Shaw W/BR	1836	1848	1296	1332	1116	1164	1248	1296	1044	1128	1404	1512
		1184	1013	939	900	792	773	912	645	745	745	821	970
2-311	Fairfield	1008	1008	1024	800	816	720	736	760	832	848	912	960
		571	N.A.	N.A.	461	444	416	439	423	N.A.	N.A.	519	566
2-320	Fairfield W/BR	1404	1242	1242	1260	1008	1080	1368	1368	1080	1062	1152	1170
		990	902	838	835	745	740	1043	750	772	740	781	880

GREAT FALLS DIVISION (Contd.)

Inst. No.	Substation	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
2-312	Fairfield - Augusta	522	516	516	516	396	468	444	384	444	468	480	516
		N.A.	N.A.	228	228	306	189	284	234	262	244	274	284
2-330	Bole	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2-340	Choteau	1728	1728	1440	1200	1344	1344	1296	N.A.	1296	1440	1584	1680
		953	882	845	790	793	807	808	N.A.	778	816	893	944
2-350	Pendroy W/BR	1512	1392	1236	1224	1248	1296	1356	1272	1104	1152	1200	1308
		1066	955	934	929	905	910	953	667	850	855	881	1002
2-360	Pondera Oil Field	360	280	320	360	320	400	320	240	320	320	360	360
		214	192	278	N.A.	177	173	176	178	186	181	203	212
2-370	Conrad Pump	384	384	352	320	416	400	N.A.	N.A.	304	352	384	352
		350	310	N.A.	N.A.	176	290	N.A.	N.A.	N.A.	N.A.	354	116
2-1330	Conrad 24 kV Line	2592	N.A.	2256	2112	2016	2064	2160	2208	2112	2064	2256	2280
		1872	N.A.	1739	1547	1573	1603	1728	1581	1538	1584	1658	1758
2-1222	So. Valier W/BR	660	612	540	540	504	816	708	768	492	552	504	540
		413	374	370	353	298	N.A.	N.A.	342	300	287	311	362
2-1221	No. Conrad W/BR	672	648	540	564	504	1176	1416	1692	528	564	636	708
		485	437	414	418	338	621	1043	729	419	393	398	507
2-380	Conrad City	3432	2976	2928	2544	2784	2928	2928	2928	2928	2928	3216	3432
		1894	1979	1932	1767	1757	1781	N.A.	N.A.	1803	1858	2326	1835
2-390	Brady	N.A.	N.A.	N.A.	504	480	360	372	384	480	480	504	552
		370	N.A.	N.A.	N.A.	322	269	278	277	316	318	381	397

GREAT FALLS DIVISION (Contd.)

Inst. No.	Substation	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
2-400	Brady W/BR	1728	1656	1512	1536	1440	1584	1824	1728	1284	1248	1392	1416
		1400	1300	1273	1223	1100	1160	1483	961	1090	1033	1110	1210
2-1090	Cut Bank Pump	4200	4150	3600	2250	4250	4150	2100	2150	3700	3600	4200	3750
		3434	3095	2924	1911	3089	1990	1839	1869	2058	2414	3339	2892
2-410	Dutton	1098	900	882	864	828	N.A.	810	774	828	828	972	1008
		704	604	634	546	580	535	555	535	585	561	660	671
2-420	Dutton Pump	1968	1968	1920	1824	1968	1776	816	1824	1920	1920	2736	1968
		1869	1779	1690	1627	1840	1503	813	1467	1619	1574	2206	1768
2-430	Power Town	276	252	240	216	240	732	768	780	516	252	240	252
		167	146	152	133	132	655	687	610	419	134	156	161
2-280	Treas. State Indust.	150	132	120	174	174	180	174	168	174	180	180	180
		89	77	77	77	85	82	87	96	99	104	119	N.A.
2-460	Portage	486	432	414	414	414	396	432	414	396	342	414	486
		309	280	270	253	250	241	251	246	247	252	270	297
2-440	Carter	354	345	327	294	300	276	330	264	282	300	312	378
		236	189	190	163	155	146	168	143	161	153	192	216
2-450	Fort Benton	3040	2624	2944	2880	2624	2656	2720	2752	2656	2816	2848	3072
		2104	1790	1716	1507	N.A.	N.A.	1707	1476	1479	1578	1759	1972
2-480	Loma	258	204	210	198	N.A.	N.A.	174	135	114	120	120	126
		143	125	123	109	N.A.	N.A.	148	72	70	70	68	78
2-490	So. Virgelle W/BR	216	307	254	254	254	307	365	403	173	158	173	202
		145	177	134	148	135	123	166	162	97	89	97	133

GREAT FALLS DIVISION (Contd.)

Inst. No.	Substation	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
2-500	Big Sandy	816	N.A.	672	960	1200	912	960	912	912	960	1056	1152
		544	N.A.	464	553	524	507	545	503	513	560	658	748
2-1320	Big Sandy REA	720	657	576	540	558	486	558	558	450	N.A.	N.A.	702
		452	389	394	343	300	263	323	302	293	N.A.	N.A.	434
2-511	Box Elder	636	546	480	420	456	444	480	468	468	408	468	528
		404	335	336	240	256	235	310	219	252	245	308	344
2-2010	Hopp Illiad W/BR	426	420	348	384	414	426	420	492	336	372	348	372
		279	255	239	234	207	227	219	174	199	192	202	259
2-2020	Laredo (Rkyboy) W/BR	N.A.	516	438	420	402	360	216	276	330	342	N.A.	414
		331	291	264	244	173	166	129	96	169	179	N.A.	250
2-1970	Stevens Pump	N.A.	N.A.	N.A.	N.A.	N.A.	216	336	288	96	N.A.	N.A.	N.A.
		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2-520	Goosebill REA W/BR	60	56	46	48	46	42	60	59	40	41	36	34
		35	30	28	27	22	23	32	21	23	21	16	19
2-530	Chester	1440	1344	1200	1248	1200	1488	1536	1200	1200	1128	1440	1560
		1106	969	1028	754	913	884	1038	902	882	797	900	1052
2-540	Joplin	300	300	300	300	180	180	180	198	198	210	258	288
		162	139	113	140	90	100	99	101	106	112	121	134
2-550	Inverness	194	194	173	151	151	144	155	155	155	166	162	180
		113	102	85	103	N.A.	80	76	81	74	107	90	100
2-560	Rudyard	480	480	480	420	480	360	360	360	480	480	480	480
		N.A.	N.A.	306	165	N.A.	197	211	224	242	232	277	328
2-570	Hingham	400	400	360	360	280	360	400	400	320	280	320	400
		223	205	182	134	N.A.	155	187	184	172	163	184	217
2-580	Gildford	320	288	256	224	256	256	288	288	224	256	288	288
		186	178	140	145	138	116	136	135	128	135	147	183

GREAT FALLS DIVISION (Contd.)

Inst. No.	Substation	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
2-590	Kremlin	120	120	100	100	100	120	120	120	100	100	100	120
		68	65	59	51	57	54	65	61	56	51	56	67
2-591	Kremlin W/BR	384	324	288	288	300	264	252	324	264	240	312	384
		252	202	188	187	192	145	170	145	171	145	177	280
2-600	Havre City	8100	7800	7260	7620	N.A.	7320	7560	7560	7260	6000	6360	6600
		N.A.	4220	4120	3741	N.A.	3912	4328	4073	3759	3750	3940	4240
2-220	Havre Highland Park	4920	4560	N.A.	3600	3720	4080	4224	3984	2616	2880	3720	3840
		3051	2754	N.A.	2554	2352	2029	2203	1654	1659	1158	2104	2323
2-630	Lohman	504	432	264	216	252	324	540	444	228	240	312	336
		330	205	176	135	137	152	302	170	125	126	171	206
2-640	Lohman REA	1125	1050	1125	975	1050	975	900	900	1050	1125	975	1050
		836	750	790	633	629	641	641	648	647	685	673	750
2-650	Chinook	2432	2240	2048	1888	1728	1984	1984	1920	1728	2048	2240	2464
		1667	1448	1394	1236	1129	1230	1385	1204	1210	1290	1428	1566
2-651	No. Chinook W/BR	186	192	228	252	192	192	180	204	144	168	168	228
		119	105	150	140	132	95	117	75	90	90	111	155
2-660	Zurich	264	192	240	168	228	276	348	264	N.A.	252	216	240
		162	148	136	113	127	148	205	138	N.A.	107	127	145
2-665	Mohar W/BR	72	72	64	63	45	45	85	36	43	54	61	69
		48	41	39	37	21	17	14	10	17	23	27	41
2-670	Harlem	1920	1792	1792	1184	1184	N.A.	1536	1344	N.A.	1280	1504	1696
		1117	N.A.	1065	817	818	N.A.	N.A.	N.A.	N.A.	834	975	1131
2-681	Harlem REA W/BR	1104	1104	972	636	816	696	672	720	636	696	780	924
		781	661	604	N.A.	N.A.	326	430	317	365	403	445	597
2-682	No. Harlem W/BR	77	74	70	64	62	72	68	65	65	60	61	67
		43	38	36	34	29	27	33	21	27	25	26	33

GREAT FALLS DIVISION (Contd.)

Inst. No.	Substation	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
2-690	Dodson	396	N.A.	408	300	N.A.	252	360	348	N.A.	300	348	396
		217	280	231	181	N.A.	164	214	179	N.A.	181	203	250
2-1050	Dodson W/BR	N.A.	N.A.	N.A.	N.A.	N.A.	37	64	80	N.A.	N.A.	N.A.	N.A.
		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	32	N.A.	N.A.	N.A.	N.A.
2-700	Wagner	225	225	234	135	135	162	135	90	90	180	225	225
		206	181	171	131	99	90	94	88	87	93	123	154
2-1040	Wagner W/BR	1560	1512	1272	1344	1056	1056	1056	912	960	1080	1224	1296
		1073	1052	750	866	690	331	400	500	632	680	766	915
2-710	Malta	2880	2720	2400	2240	2240	2720	2880	2880	2240	2400	2560	2720
		1925	1712	1632	1356	1322	1467	1720	1480	1413	1402	1596	1789
2-720	Saco W/BR	758	701	595	605	499	480	394	470	413	451	490	557
		543	453	399	397	284	244	267	188	268	243	287	407
2-730	Saco	N.A.	285	282	240	N.A.	N.A.	96	96	78	84	72	108
		202	179	164	N.A.	N.A.	N.A.	59	54	53	55	62	69
2-240	Saco Alfalfa Plant	168	144	144	120	N.A.	N.A.	224	180	220	140	144	86
		24	22	17	11	5	N.A.	29	20	30	7	8	11
2-750	Hinsdale Town	360	276	270	216	252	240	330	360	252	264	300	264
		216	180	175	127	N.A.	135	167	157	151	156	178	194
2-740	Hinsdale W/BR	678	594	504	534	528	468	450	528	318	414	438	492
		483	401	343	334	244	232	241	218	207	209	244	359
2-760	Tampico	N.A.	28	24	16	12	20	16	20	20	24	28	24
		N.A.	16	17	13	10	11	13	12	13	12	16	19

GREAT FALLS DIVISION (Contd.)

Inst. No.	Substation	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
2-780	Glasgow West Side	3120	2760	2400	2280	2280	3360	3360	3480	3720	2760	3120	2880
		1920	1668	1603	1417	1406	1664	1932	1552	1507	1509	1662	1800
2-790	Glasgow East Side	3120	2544	2352	2208	2304	2544	2640	2640	2112	2640	2928	2880
		2060	1800	1665	1453	1385	1779	1261	1394	1468	1473	1745	1863
2-810	Glasgow AFB	3384	3240	3168	2880	2952	2736	2808	2664	2952	3096	3168	3456
		2770	2444	2334	2048	N.A.	1738	1800	1750	1904	2068	2325	2484
2-850	Nashua	608	608	480	480	480	512	528	528	464	528	544	592
		363	310	284	240	240	240	275	248	251	2[illegible]	296	323
2-880	Fife	168	108	156	N.A.	144	144	168	N.A.	144	156	144	156
		117	98	102	N.A.	98	98	95	N.A.	N.A.	N.A.	N.A.	N.A.
2-920	Ulm	1200	888	984	852	N.A.	624	648	624	408	480	480	552
		702	605	589	520	N.A.	341	430	354	248	263	298	342
2-950	Stockett	1020	900	900	840	960	780	780	780	780	780	900	1020
		737	610	632	578	519	545	497	500	539	555	618	690
2-960	Belt	1536	1312	1216	1184	1760	992	864	1056	1056	1216	1408	1504
		953	791	805	735	703	671	N.A.	N.A.	686	714	817	886
2-970	Armington W/BR	220	187	171	192	192	192	159	177	175	162	112	121
		133	119	116	113	98	93	97	71	100	90	25	N.A.
2-601	Havre E. Bank No. 1	N.A.	216	N.A.	N.A.	900	936	1080	1224	756	1836	828	972
		N.A.	52	N.A.	N.A.	256	459	591	575	476	823	540	634
2-602	Havre W. Bank No. 3	N.A.	792	N.A.	N.A.	900	1008	1188	1404	1008	2160	1116	1152
		N.A.	122	N.A.	N.A.	276	485	623	606	502	866	570	672
2-712	Malta E. Rural	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

BILLINGS DIVISION

Inst. No.	Substation	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
3-360	Colstrip (No. 6-C)	1200	992	1024	992	960	960	1056	1120	1376	960	1440	1440
		291	210	325	320	230	N.A.	161	467	557	374	394	676
3-370	Colstrip (Peabody)	1728	1608	1584	1800	1620	1620	1776	1680	1680	1800	1860	1980
		775	784	N.A.	N.A.	733	726	787	538	632	681	798	934
3-380	Dringman	58	49	43	49	41	25	27	23	36	36	50	58
		28	21	19	14	13	10	12	11	11	14	23	29
3-390	Farley Ranch	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
3-400	Greer	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
3-410	Hardin	2784	2400	2400	2400	2400	2928	3120	3000	2640	2640	2640	2760
		1920	1707	1700	1613	1600	1794	2106	1745	1653	1677	1761	1876
3-440	Hardin-Bighorn REA	3080	4200	2520	2380	2240	2380	2800	4200	2100	2100	2240	2240
		1878	1808	1625	1458	1374	1392	1569	1568	1280	1204	1400	1536
3-420	Hardin Feed Mill	408	366	336	270	264	222	252	354	366	342	342	348
		84	70	58	25	15	14	29	49	37	54	46	60
3-430	Hardin Road	1200	1008	918	924	900	888	960	924	900	1014	1062	1164
		797	688	670	614	611	619	674	595	624	677	744	820
3-431	Lockwood REA	1269	1053	972	891	918	918	999	931	864	1026	1120	1336
		797	667	642	557	527	568	635	553	554	619	742	N.A.
3-450	Pryor (Yel. Val. REA)	924	702	690	624	546	570	N.A.	582	900	648	804	948
		649	550	535	446	422	N.A.	311	363	388	N.A.	585	626
3-460	Tongue Riv. REA	6289	4965	4745	4193	4634	4414	4579	4193	4303	4758	5504	5848
		3877	3382	3166	N.A.	2743	2877	3240	2863	2980	3229	3868	4201
3-470	Tullock Creek	39	27	27	27	24	30	33	30	24	30	N.A.	33
		18	15	12	11	10	12	15	13	11	13	13	15

BILLINGS DIVISION (Contd.)

Inst. No.	Substation	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
3-220	Melstone No. 1	600	600	480	480	420	420	600	600	600	480	480	540
		355	307	297	256	240	238	340	253	213	245	294	N.A.
3-230	Mountain States Mine	180	240	27	20	18	20	171	171	180	171	171	171
		106	157	15	N.A.	N.A.	N.A.	31	149	152	151	149	N.A.
3-240	Musselshell	360	324	306	288	234	216	216	216	216	270	288	360
		256	217	212	164	148	134	145	125	135	150	N.A.	242
3-250	Roundup	3120	2640	2520	2400	2400	2160	1056	2400	864	2640	1008	3240
		1903	1707	1668	1513	1497	1497	N.A.	1479	N.A.	1594	N.A.	1952
3-260	Roundup-Fergus REA	4400	3680	3520	2880	3360	2240	2400	2400	2640	3120	3680	4160
		3156	2679	2645	2189	2311	1828	N.A.	1689	1854	2065	2581	2931
3-270	Roundup-McCone REA	1183	1014	913	879	845	811	811	794	811	845	1031	1149
		927	820	792	699	748	623	500	529	581	631	753	857
3-280	Ryegate	440	360	320	320	344	312	368	360	320	360	360	424
		243	205	205	181	197	174	203	182	180	186	206	227
3-290	Ryegate-Fergus REA	360	282	240	288	252	210	210	210	180	198	240	270
		196	166	162	144	131	103	100	112	98	104	128	160
3-300	Sumatra	2880	3072	3072	3072	3072	2784	2880	N.A.	3072	N.A.	3264	3264
		2632	2714	2510	2863	2667	2238	2653	N.A.	2485	N.A.	2654	2841
3-330	Clark Ranch	41	32	35	36	30	31	41	34	32	37	40	46
		18	14	14	16	14	15	16	14	15	16	18	22
3-331	Westmoreland	1224	1512	1530	1512	1458	1440	1440	1350	1350	1260	N.A.	N.A.
		403	338	185	206	201	N.A.	191	88	68	54	N.A.	N.A.
3-340	Colstrip Town	3072	2832	2928	2544	2352	1440	1968	1920	2592	3072	4032	3360
		1920	2093	1419	1371	1083	771	1081	1009	1289	2061	1868	1907
3-350	Colstrip (Shop)	432	408	420	384	390	552	780	720	360	450	390	360
		175	143	142	135	147	109	246	245	121	142	153	175

BILLINGS DIVISION (Contd.)

Inst. No.	Substation	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
3-110	Anderson	N.A. N.A.	N.A. N.A.	N.A. N.A.	N.A. N.A.	N.A. N.A.	N.A. N.A.	N.A. N.A.	N.A. N.A.	N.A. N.A.	N.A. N.A.	N.A. N.A.	N.A. N.A.
3-120	Broadview	528 412	540 373	540 367	486 302	420 277	420 258	432 283	420 256	420 259	420 268	540 322	600 381
3-125	Jensen	18 6	18 6	21 6	96 8	120 20	105 32	255 33	120 28	15 N.A.	12 5	15 5	24 7
3-130	Ivanhoe No. 1	1632 581	1680 593	1776 676	1776 644	816 567	960 463	1584 493	1584 387	768 400	768 465	1536 444	1536 579
3-140	Little Wall No. 2	376 60	392 N.A.	392 340	424 N.A.	440 93	448 81	456 84	208 89	208 88	N.A. N.A.	128 N.A.	128 78
3-150	Willow Creek No. 3	264 73	312 98	300 131	312 148	288 135	288 108	288 90	264 57	264 82	288 98	144 103	288 128
3-160	Roundup No. 4	816 388	864 400	816 406	816 430	816 297	816 400	816 297	816 226	816 341	816 300	816 523	816 317
3-170	Cushman	N.A. N.A.	N.A. N.A.	N.A. N.A.	N.A. N.A.	N.A. N.A.	N.A. N.A.	N.A. N.A.	N.A. N.A.	N.A. N.A.	N.A. N.A.	N.A. N.A.	N.A. N.A.
3-180	Gage	852 577	864 642	900 690	900 661	900 647	840 588	900 643	852 635	876 660	888 693	840 648	996 724
3-190	Ivanhoe	720 516	840 579	960 634	960 638	960 500	960 438	960 507	840 460	840 516	840 497	840 538	1080 621
3-195	Keefer-Eklund	N.A. N.A.	N.A. N.A.	N.A. N.A.	N.A. N.A.	192 18	180 16	204 54	204 52	180 3	N.A. 2	N.A. 2	N.A. 3
3-200	Lavina	480 279	413 244	336 229	355 208	461 237	365 218	384 232	336 206	336 199	384 214	432 259	509 299
3-210	Lavina (Fergus REA)	90 50	72 40	60 39	60 34	45 25	54 11	42 N.A.	30 18	45 21	45 23	45 28	66 38

BILLINGS DIVISION (Contd.)

Inst. No.	Substation	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
3-480	Yellowtail (Big Horn)	624	576	480	N.A.	480	528	624	768	768	720	648	912
		370	338	N.A.	N.A.	261	287	341	312	624	442	N.A.	223
3-490	Billings Rimrock	7056	5904	5616	5688	5904	7200	7920	7488	6408	7200	7344	7488
		4630	4125	3958	3970	4040	4374	5023	4293	4088	4471	4750	4610
3-510	Billings Steam Plant	5632	5120	3040	1664	1952	2976	3456	3392	1728	1376	1312	1376
		4840	4014	1308	1147	1120	1639	2387	1628	1129	1045	1032	1103
3-520	Billings City Sub #1	4560	4224	4176	4512	4344	5448	5688	2520	2256	2208	1920	1944
		2880	2693	2639	2627	2543	2981	2394	1190	1009	1045	990	1066
3-530	Billings City Sub #2	3672	3480	3672	4272	4296	5280	5520	3456	2904	2712	2352	2376
		2137	2021	2135	2247	2227	2658	2568	1614	1391	1377	1316	1386
3-540	Billings City Sub #3	2184	2088	1992	2352	2184	3000	3024	2808	2472	2568	2064	2136
		1180	1082	1048	1033	1023	1381	1623	1338	1106	1116	1081	1162
3-550	Billings City Sub #4	4224	4272	4080	3744	3312	5424	4176	3360	3264	3456	3648	3600
		3473	2950	2729	2487	2340	2548	2413	2200	2263	2406	2671	2821
3-580	Billings East Side	8064	7056	6672	6912	6624	9024	9120	9408	7728	6912	6912	7056
		4873	4300	4761	3267	3980	4890	5710	4862	4194	4252	4252	4655
3-581	Billings East Side 12.5 kV	3960	3888	3924	3636	4140	4572	4536	4464	4248	3996	3960	3960
		2390	2255	2313	2260	2455	2637	2806	2778	2405	2361	2265	2162
3-590	Billings Cont. Refinery	9300	8920	9300	9450	9210	9400	9420	N.A.	9600	9610	9260	9160
		8572	8417	8276	8494	8168	8446	8597	8711	8832	8788	8527	8162
3-600	Billings Cont. Pipe 5	1620	1600	1600	1620	1600	1620	1580	840	1600	1660	1620	1600
		1344	1414	1417	1217	1294	1118	667	690	1094	1261	1328	1417
3-610	Billings Humble #1	5760	6320	6320	5120	6560	6640	8160	9280	6800	5840	6080	6080
		4373	5647	5329	4432	5490	5697	5335	5965	5748	4521	4996	4857
3-620	Billings Humble #2	6400	6960	6720	5840	7200	7200	7280	N.A.	7280	6480	6720	6800
		5231	6501	6101	3120	6384	6619	6115	6863	6632	5366	5846	5858

BILLINGS DIVISION (Contd.)

Inst. No.	Substation	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
3-630	Billings Humble No. 3	6240	6800	6640	5520	7040	7040	9040	7440	7600	6320	6560	6640
		5035	6258	5872	5050	6142	6363	6174	6623	6381	5156	5619	5635
3-640	Billings Seminoe	3168	3120	3072	2880	3120	3120	3312	3312	3168	3168	2928	3360
		2400	2050	2129	2160	2247	2419	2516	2607	2288	2026	2045	N.A.
3-650	Huntley-Yel. Val. REA	4334	3292	3042	2584	2584	2125	1000	2167	2375	3167	3250	3792
		2668	2208	2145	1794	1690	1255	717	N.A.	1568	1316	2212	2658
3-660	Billings Bellrock 1	8064	7200	6840	5904	6840	7416	10080	7416	7200	7704	9144	8640
		5450	5014	4887	4883	4510	5497	6455	5245	4706	4558	8565	1118
3-670	Billings Bellrock 2	8640	7200	7200	6840	7200	9360	9936	7416	7704	8640	7920	11736
		5030	4596	4432	4280	4240	N.A.	3600	4769	4650	4800	1365	10552
3-680	Billings 8th West 1	8736	7224	6720	6216	7560	10080	10416	9912	8232	9744	10080	10416
		5483	4775	4652	4223	4877	5803	7000	5310	5338	5532	6210	5890
3-690	Billings 8th West 2	7896	6888	6384	6216	6216	8736	9408	8904	7392	8400	8736	9408
		4480	4150	4042	3803	3780	4494	5261	4176	4200	4652	4900	5286
3-691	Billings 8th West 3	10752	11088	8400	8904	8736	10248	10416	10248	8568	8568	9240	9240
		7047	6300	6187	6090	5273	5690	6458	5817	5403	5668	5848	6155
3-700	Absarokee	660	510	510	480	480	450	450	450	480	600	600	N.A.
		365	304	303	282	277	268	297	295	297	302	340	N.A.
3-710	Absarokee REA	1080	918	810	828	666	684	630	648	972	864	1224	N.A.
		658	533	535	438	410	406	423	413	430	455	589	N.A.
3-730	Columbus	1890	1620	1620	1620	1620	1800	2070	1980	1710	1980	1818	1980
		889	764	774	758	758	826	1002	920	829	869	925	1016
3-740	Columbus (Bt. REA)	1260	1044	1008	846	792	720	630	630	630	684	810	900
		631	783	625	515	469	363	373	343	360	411	515	594
3-750	Columbus-Cattlefield	N.A.	128	128	120	132	120	120	120	120	92	120	N.A.
		N.A.	34	37	31	31	28	26	26	27	30	35	N.A.

BILLINGS DIVISION (Contd.)

Inst. No.	Substation	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
3-770	Columbus-Holmgren	N.A.	N.A.	N.A.	N.A.	N.A.	48	56	36	36	N.A.	N.A.	N.A.
		N.A.	N.A.	N.A.	N.A.	N.A.	4	12	5	1	N.A.	N.A.	N.A.
3-780	Columbus-Pierce Ranch	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	36	N.A.	N.A.	N.A.	N.A.	N.A.
		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	27	N.A.	N.A.	N.A.	N.A.	N.A.
3-790	Columbus-Pierce-Goddard	N.A.	N.A.	N.A.	N.A.	30	N.A.	105	90	3	N.A.	N.A.	3
		N.A.	N.A.	N.A.	N.A.	4	4	32	17	3	N.A.	4	N.A.
3-795	Columbus Pump	1120	1088	1088	1024	1152	960	1024	960	960	960	1088	1152
		560	581	473	458	649	766	718	740	608	551	628	731
3-800	Laurel East Bank	4200	3720	3360	3312	3240	3480	3840	3600	3168	3480	3744	3984
		2653	2318	2255	2103	2047	2210	2503	2169	2141	2139	2465	2624
3-825	Laurel Pump	816	816	816	816	816	792	648	720	816	816	816	768
		697	711	768	573	703	581	355	441	528	642	720	527
3-840	Laurel-Cenex	N.A.	N.A.	N.A.	5200	5200	5600	5600	5500	5400	5200	5200	5200
		N.A.	N.A.	N.A.	N.A.	4319	4758	N.A.	4626	4505	N.A.	4503	4483
3-850	Mossmain (Yel. Val. REA)	2340	1800	1710	1530	1440	1890	2160	1980	1530	1710	1980	2430
		1365	1106	1081	948	895	965	1285	1094	959	948	1164	1355
3-860	NYE (B.T. REA)	390	330	306	354	336	396	312	330	432	360	390	408
		200	187	N.A.	N.A.	218	139	183	186	178	177	215	254
3-870	Park City	432	344	320	256	264	328	480	460	312	304	352	376
		242	192	188	174	169	176	293	221	176	178	207	223
3-880	Park City-Yel. Val. REA	960	792	792	696	768	1128	1056	972	768	780	816	1080
		575	484	484	412	420	529	766	600	427	447	495	572
3-890	Reed Point	270	258	252	210	186	204	216	210	198	204	222	240
		173	146	155	128	120	119	133	122	125	125	129	149
3-900	Reed Point-B.T. REA	462	342	354	294	216	186	192	180	210	N.A.	276	330
		256	191	196	143	135	115	113	106	115	N.A.	150	188

BILLINGS DIVISION (Contd.)

Inst. No.	Substation	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
3-910	Reed Point - FAW	N.A.	24	36	56	140	144	N.A.	72	60	60	50	48
		N.A.	N.A.	1	2	20	15	N.A.	2	2	2	3	5
3-920	Bear Creek	60	60	60	72	60	60	60	60	60	66	78	75
		40	38	35	37	36	35	N.A.	19	38	38	42	43
3-930	Bridger	540	540	450	405	495	675	765	630	540	450	495	540
		403	351	339	318	363	426	554	481	340	351	365	406
3-935	Bridger - Chance	1800	1440	1620	1530	1800	1710	1800	1620	1350	1260	1440	1440
		1110	959	1103	1135	1340	1060	1253	1195	1031	881	798	1071
3-940	Bridger Pump	1312	1312	1376	704	1312	736	N.A.	N.A.	704	1216	1216	N.A.
		853	886	1105	418	747	417	N.A.	N.A.	N.A.	641	882	N.A.
3-950	Dry Creek	198	174	168	132	138	138	120	126	150	138	150	138
		63	146	102	93	91	86	85	87	92	83	60	78
3-975	Rockvale	600	600	564	750	870	828	990	936	900	900	1050	1080
		367	314	296	284	458	460	573	N.A.	N.A.	484	557	627
3-980	Fromberg	1242	855	801	765	720	486	459	513	387	405	450	495
		628	516	495	396	206	243	327	301	230	235	260	300
3-970	Edgar - B.T. REA	1368	1032	1080	1008	984	996	1152	1152	948	936	1104	1296
		818	680	668	568	552	623	761	672	548	548	702	N.A.
3-1010	Red Lodge	2220	1284	1248	1440	1380	1380	1440	1344	1500	1800	1980	2280
		1263	N.A.	916	943	913	906	1023	962	938	978	1162	N.A.
3-1015	Luther - B.T. REA	345	246	270	225	225	204	186	225	234	234	255	N.A.
		181	149	154	133	122	106	112	114	124	126	139	N.A.
3-1020	Red Lodge Grizzly Pk.	390	396	408	300	132	72	42	60	60	60	360	420
		113	103	111	75	30	10	6	10	12	19	65	110
3-1030	Red Lodge Bt. REA	750	636	618	780	660	660	720	720	810	660	900	1020
		513	470	452	370	338	345	369	348	328	320	453	572

BILLINGS DIVISION (Contd.)

Inst. No.	Substation	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
3-1040	Silisea	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
3-436	Schaack REA	516	468	546	504	528	480	462	468	456	366	384	420
		323	343	288	321	251	288	337	340	255	194	169	178

LEWISTOWN DIVISION

Inst. No.	Substation	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
4-170	Barber	30	30	24	126	135	135	150	135	150	129	39	30
		16	13	13	26	41	98	98	85	40	25	16	16
4-510	Denton	1656	1512	1392	1344	1344	1080	1104	1152	1176	1248	1296	1392
		1121	963	1015	900	703	515	1061	740	797	789	897	859
4-540	Geraldine	1170	1044	954	918	1062	702	N.A.	774	846	882	972	1152
		719	613	200	551	498	445	N.A.	456	474	522	598	691
4-560	Geyser	90	90	81	72	108	76	67	67	76	76	67	72
		47	47	44	44	41	44	44	46	42	46	45	47
4-990	Fergus REA (Geyser)	780	660	720	780	780	420	390	420	510	450	540	720
		483	420	423	362	328	290	276	281	294	315	345	434
4-260	Glengarry REA	1116	954	936	846	828	720	630	666	738	756	900	1134
		578	670	654	555	503	457	428	437	462	488	586	713
4-30	Groveland	360	240	300	270	282	225	105	150	135	N.A.	195	192
		224	200	205	174	173	103	69	73	77	N.A.	98	115
4-420	Hanover Jct.	N.A.	N.A.	N.A.	N.A.	136	138	136	140	140	146	N.A.	N.A.
		N.A.	N.A.	N.A.	N.A.	10	N.A.	33	96	87	14	N.A.	N.A.
4-13	Harlowton Dist.	1968	1512	1440	1296	1344	1392	1392	1320	1272	1680	1656	1896
		1174	1007	1042	917	897	913	1097	832	840	947	1029	1110
4-120	Harlowton REA	648	516	570	450	432	336	330	336	390	432	450	612
		359	316	342	265	231	181	166	190	167	244	268	353
4-440	Kolin REA	366	300	282	252	252	222	195	204	240	258	270	342
		215	178	176	142	125	119	110	115	118	130	156	186
4-290	Heath U. S. Gypsum	960	960	960	896	896	896	864	896	880	896	896	928
		544	493	482	391	335	444	473	476	458	404	432	398

LEWISTOWN DIVISION (Contd.)

Inst. No.	Substation	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
4-280	Heath REA	990 607	792 512	810 527	648 440	972 428	630 448	612 404	630 438	738 443	648 411	702 489	882 513
4-350	Hilger REA	3930 2676	3127 2400	3212 2289	2874 1902	2240 1323	1902 1509	2409 1409	2155 1858	2409 1464	2536 1761	2958 2188	3803 2486
4-211	Judith Gap	342 219	294 205	318 208	276 196	282 184	246 178	252 180	258 179	279 180	294 197	330 206	330 223
4-212	Judith Gap Glacier	2016 1789	1984 1629	1952 1416	1920 1317	2016 1583	1952 1000	768 500	1856 938	1952 783	1920 1333	2016 1492	2016 1763
4-268	Berg Sawmill	900 182	132 N.A.	144 21	168 20	132 11	204 N.A.	228 39	216 17	204 19	204 24	192 24	180 23
4-270	Lewistown No. 1	2160 N.A.	1824 1200	1824 1173	1704 1081	1920 1052	N.A. 1050	1920 1097	1680 1048	1776 1107	1920 1058	2112 N.A.	2112 N.A.
4-310	Lewistown No. 2	N.A. N.A.	4336 N.A.	4328 N.A.	4000 N.A.	3884 N.A.	N.A. N.A.	N.A. N.A.	4008 N.A.	3136 N.A.	4832 N.A.	5488 N.A.	5532 N.A.
4-410	Lewistown No. 3 Peavy	160 37	192 32	186 30	173 12	154 N.A.	173 10	160 11	173 12	160 13	173 17	173 17	147 18
4-550	Merino B-1	53 34	38 N.A.	36 27	36 N.A.	48 33	48 31	36 26	36 28	34 N.A.	34 N.A.	34 N.A.	36 34
4-450	Moccasin	432 255	408 237	360 228	312 197	528 182	264 157	288 177	264 166	276 172	288 177	336 212	396 355
4-240	Moore	900 329	780 286	720 282	672 227	660 206	636 159	N.A. N.A.	624 169	660 204	732 216	816 284	924 313
4-200	Nihill	660 468	570 416	582 409	540 388	462 332	564 303	408 303	438 305	432 271	516 373	516 384	612 429

LEWISTOWN DIVISION (Contd.)

Inst. No.	Substation	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
4-220	Straw	720	636	648	516	504	426	432	456	312	480	600	660
		459	421	433	345	300	258	332	295	N.A.	235	350	387
4-340	Lewistown Radar	216	240	156	270	228	144	N.A.	120	180	216	228	240
		140	150	N.A.	123	83	86	N.A.	71	108	130	152	158
4-430	Rossfork M-11	37	34	34	29	24	N.A.	21	27	32	16	24	24
		26	25	24	23	24	N.A.	18	27	19	N.A.	N.A.	22
4-230	Royston	16	10	N.A.	9	8	6	34	8	6	6	7	28
		2	3	N.A.	2	N.A.	N.A.	1	2	N.A.	1	N.A.	N.A.
4-231	Ruby Gulch REA	564	624	660	588	528	528	420	480	504	264	408	420
		N.A.	324	326	273	186	175	148	157	153	160	224	260
4-140	Shawmut	75	75	78	96	72	78	78	78	69	72	78	81
		55	51	51	51	49	51	54	52	45	52	49	52
4-150	Shawmut REA	26	18	20	16	17	13	11	11	14	14	23	18
		14	9	11	8	7	6	4	5	5	6	12	10
4-501	Stanford City	1680	1320	1200	1200	1200	480	888	1020	1200	1140	1260	1560
		932	N.A.	N.A.	733	637	N.A.	602	608	641	683	776	876
4-21	Two Dot	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
4-40	Utica	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
4-41	Glacier Pump	924	600	564	576	636	564	N.A.	N.A.	N.A.	N.A.	1008	N.A.
		546	415	300	150	219	319	N.A.	N.A.	N.A.	N.A.	612	N.A.

LEWISTOWN DIVISION (Contd.)

Inst. No.	Substation	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
4-460	Windham	954	612	504	486	486	378	N.A.	N.A.	315	N.A.	N.A.	665
		N.A.	N.A.	341	320	250	282	N.A.	N.A.	N.A.	273	311	366
4-130	Winnecook K-6	29	35	29	29	27	28	27	26	29	26	34	28
		22	22	22	22	20	21	19	21	18	25	22	20
4-530	Square Butte	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

BOZEMAN DIVISION

Inst. No.	Substation	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
6-251	Boz. Southside No. 1	4000	3200	3040	2880	3200	2560	2560	3840	3520	3520	3840	4400
		2311	2048	1892	2178	1720	1711	1570	1393	1978	1989	2156	2589
6-252	Boz. Southside No. 2	4000	4160	4000	4160	4000	3904	3040	4000	4032	4224	4224	4320
		2409	2371	2185	2800	2297	2169	1763	1540	2044	2616	2504	2604
6-250	Southside No. 3 Boz.	4480	3680	3264	3360	3360	3520	3680	3264	4000	3904	4352	4544
		2453	2267	2142	2462	1987	2311	2280	1548	2844	2253	2267	2720
6-241	Bozeman Northside	5088	4464	4512	4320	4032	4080	4128	3936	3936	4032	4704	5280
		3375	3029	2897	3140	2581	2880	2787	2452	2953	2752	2825	3833
6-320	Bozeman Sourdough	3520	2880	2624	2560	2688	2624	2816	2624	2688	3520	3648	3840
		1858	1867	1699	1880	1583	1698	1652	1480	1876	1889	N.A.	2324
6-321	East Gallatin	3780	2940	2394	2520	2940	2940	2730	2940	2940	3486	4200	4620
		2439	2088	1993	2048	1908	2205	2269	1897	2368	2305	2680	3302
6-220	Belgrade	4176	3528	3312	3384	3672	3960	4032	3816	3600	3636	N.A.	N.A.
		3484	3064	997	2808	3087	3669	3837	3130	3053	2983	N.A.	N.A.
6-222	Mountain Village	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
6-311	Bozeman Hot Springs	3060	2280	1200	1320	1380	1260	1320	1320	N.A.	1524	1692	1800
		1820	1561	715	962	806	870	868	745	N.A.	908	994	1288
6-243	Meadow Village	N.A.	2418	3252	N.A.	2010	852	N.A.	1092	2652	N.A.	1254	3024
		N.A.	1702	1541	1181	882	765	666	716	N.A.	N.A.	N.A.	1100
6-300	Cherry Creek	20	50	N.A.	50	50	45	40	40	40	50	50	50
		N.A.	N.A.	24	21	16	15	15	13	15	16	19	25

BOZEMAN DIVISION (Contd.)

Inst. No.	Substation	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
6-610	Ebert - Windsor	144	120	144	120	264	240	312	264	168	120	120	144
		N.A.	N.A.	140	109	186	N.A.	N.A.	N.A.	N.A.	106	N.A.	N.A.
6-180	Ennis	1332	1080	1080	960	1320	1440	1560	1320	1320	1560	1800	1980
		853	763	734	678	710	1010	1045	942	840	939	1135	1334
6-710	Green Ranch	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A	N.A.	N.A.	N.A.
6-200	Logan	96	N.A.	69	59	56	59	67	69	64	59	59	N.A.
		52	43	42	39	39	42	45	43	42	N.A.	43	17
6-130	Madison Storage	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
6-190	Madison Valley	600	540	504	480	480	420	450	450	552	420	N.A.	540
		395	376	N.A.	N.A.	260	255	261	253	266	258	N.A.	142
6-211	Manhattan	1792	1264	1280	1200	1552	1280	736	720	736	768	768	N.A.
		1009	855	807	765	940	509	490	456	473	478	424	N.A.
6-143	KYD Pump	N.A.	N.A.	N.A.	N.A.	1344	1572	1920	1896	1368	1140	N.A.	2500
		N.A.	N.A.	N.A.	N.A.	N A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
6-150	Ideal Cement	6500	6000	5900	5800	6400	6340	6700	6600	6800	6700	6800	6820
		N.A.	4670	4282	4607	5371	5364	5246	5188	5477	5375	5233	4712
6-151	Three Forks	N.A.	N.A.	N.A.	N.A.	1488	1872	N.A.	1488	1632	1488	N.A.	1728
		N.A.	N.A.	N.A.	N.A.	1021	1192	N.A.	1148	1110	1034	1112	1331
6-152	Three Forks No. 2	N.A.	N.A.	1344	1584	1536	1656	1632	1608	1488	N.A.	1776	N.A.
		N.A.	N.A.	N.A.	N.A.	939	1000	1021	963	948	949	1016	1175
6-362	Livingston Northside	3744	3120	2976	2856	2856	2736	2760	2808	2760	2832	3240	3360
		2221	2000	N.A.	N.A.	1779	1755	1816	1800	1766	1831	1985	2161

BOZEMAN DIVISION (Contd.)

Inst. No.	Substation	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
6-363	Downer Sub	122	122	125	102	96	80	83	83	86	99	106	125
		60	55	52	41	34	30	27	28	31	37	46	56
6-650	Big Timber	1648	1328	1312	1296	1280	1088	1296	1280	N.A.	1296	1456	1760
		N.A.	828	862	826	761	684	896	N.A.	N.A.	N.A.	830	909
6-420	Chico	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N A.	N.A.	N.A.	N.A.	N.A.
6-660	Melville	480	480	480	420	480	360	360	360	360	360	420	540
		313	300	286	239	309	186	233	202	101	N.A.	211	328
6-450	Brogan	261	N.A.	240	N.A.	159	186	219	210	192	195	264	291
		159	N.A.	137	N.A.	93	90	107	102	104	121	136	46
6-470	Gardiner	1072	N.A.	864	N.A.	1200	960	704	760	880	880	960	960
		641	N.A.	568	N.A.	504	463	474	498	567	520	591	N.A.
6-670	Grey Cliff	234	210	174	174	168	132	150	156	144	156	156	180
		117	105	86	73	79	85	95	98	N.A.	N.A.	89	120
6-620	Hunters Hot Springs	47	40	37	42	105	127	133	81	102	82	40	48
		22	19	19	18	41	64	76	44	29	30	19	21
6-601	Burkland Lumber	189	541	550	531	237	197	472	490	509	525	544	568
		66	139	148	151	73	68	98	119	117	151	173	128
6-340	Muir	N.A.	283	172	240	129	111	150	142	145	175	135	294
		209	168	N.A.	N.A.	107	88	88	89	95	101	124	168
6-602	Park Lumber	90	200	230	290	250	242	190	260	260	252	176	260
		12	22	30	18	31	16	12	N.A.	N.A.	29	17	32
6-630	Springdale Pump	1656	1680	1656	1656	1680	1704	1704	1704	1704	1056	1056	1632
		N.A.	1074	1110	767	1153	1129	1219	1221	1106	654	N.A.	1321

BOZEMAN DIVISION (Contd.)

Inst. No.	Substation	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
6-380	Manhattan Pump	1200	1224	1188	1176	1188	1212	1188	1200	1224	1140	1200	1200
		837	720	745	669	806	927	838	920	795	769	796	N.A.
6-500	Mammoth	636	N.A.	612	N.A.	672	672	600	840	768	N.A.	560	560
		421	N.A.	393	N.A.	348	417	N.A.	523	478	N.A.	N.A.	N.A.
6-510	Norris Junction	N.A.	N.A.	N.A.	N.A.	34	34	31	35	30	N.A.	N.A.	N.A.
		N.A.	N.A.	N.A.	N.A.	7	13	14	18	14	N.A.	N.A.	N.A.
6-520	Canyon	N.A.	N.A.	N.A.	N.A.	N.A.	640	640	832	512	N.A.	N.A.	N.A.
		N.A.	N.A.	N.A.	N.A.	N.A.	90	395	471	240	N.A.	N.A.	N.A.
6-530	Lake Fishing Bridge	N.A.	N.A.	N.A.	N.A.	1280	1312	1280	1600	928	N.A.	N.A.	N.A.
		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	736	822	438	N.A.	N.A.	N.A.
6-540	West Thumb	N.A.	N.A.	N.A.	N.A.	N.A.	332	336	368	128	N.A.	N.A.	N.A.
		N.A.	N.A.	N.A.	N.A.	N.A.	37	181	175	72	N.A.	N.A.	N.A.
6-550	Madison Junction	N.A.	N.A.	N.A.	N.A.	N.A.	100	65	72	79	N.A.	N.A.	N.A.
		N.A.	N.A.	N.A.	N.A.	N.A.	72	35	41	56	N.A.	N.A.	N.A.
6-560	Old Faithful	N.A.	N.A.	N.A.	N.A.	N.A.	960	1040	1280	960	N.A.	N.A.	N.A.
		N.A.	N.A.	N.A.	N.A.	266	560	589	713	538	N.A.	N.A.	N.A.
6-690	Big Timber REA	552	456	360	396	408	372	432	456	372	384	432	552
		358	302	309	260	243	233	288	292	222	225	274	324
6-640	McLeod REA	228	168	216	192	240	240	360	384	432	240	252	252
		147	118	121	115	145	150	200	230	167	137	144	155
6-410	Chico REA	1080	N.A.	792	N.A.	462	N.A.	852	N.A.	N.A.	N.A.	480	510
		N.A.	N.A.	468	N.A.	N.A.	N.A.	482	N.A.	N.A.	N.A.	399	331

BOZEMAN DIVISION (Contd.)

Inst. No.	Substation	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
6-350	Clyde Park REA	846	1422	648	648	648	N.A.	558	576	540	558	630	702
		497	N.A.	N.A.	409	340	N.A.	N.A.	356	330	336	375	462
6-390	Livingston REA	900	684	702	702	558	846	972	1044	846	900	810	882
		566	462	471	421	353	460	650	471	513	470	503	623
6-330	Mount Ellis W/BR	508	508	391	396	355	328	288	288	337	351	432	459
		272	242	234	216	189	197	145	115	166	220	253	275
6-361	Livingston City	4288	4288	4160	4000	4160	4192	4576	4576	4819	3680	4160	4640
		2571	2493	2376	2239	2285	2290	2570	2382	N.A.	N.A.	N.A.	2699

HELENA DIVISION

Inst. No.	Substation	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
7-301	East Helena Town/Rural	6006	4326	4410	3822	4830	5040	6132	6174	4956	4956	5460	5964
		3670	2994	2868	2590	3044	3500	4217	3336	3919	2738	3607	4002
7-321	Helena East Side 1	5040	4800	4560	4560	4320	4800	4896	4896	4656	4656	4944	5040
		3541	3171	3086	3047	2662	3044	3200	3084	2943	3019	3159	3450
7-322	Helena East Side 2	4848	4848	4848	4800	4656	4608	4608	4608	4560	4608	4512	4512
		3018	2850	2757	2600	2221	2494	2641	2581	2486	2525	2653	2871
7-331	Helena Front Street 1	5280	4128	4032	3264	4224	4176	4224	4176	3744	4032	4464	4512
		3194	2807	2669	2329	2300	2500	2638	2555	2429	2450	2606	2761
7-332	Helena Front Street 2	3904	3392	3456	3424	3424	4032	4096	4096	3712	3648	3584	3776
		2503	2331	2294	2133	2133	2347	2446	2400	2310	2321	2396	2551
7-351	Helena West Side 1	4736	3904	3744	3520	3520	3424	3392	3456	3648	4224	4672	4672
		2789	2440	2386	2194	2098	2053	2138	2043	2214	2321	2542	2667
7-352	Helena West Side 2	7200	5328	5688	5616	5544	5832	5904	5760	5184	5616	6192	6624
		4166	3456	3486	3513	3540	3730	3834	3339	3311	3441	3677	4074
7-320	Yellowstone Pipe	1968	1872	1656	1752	1704	1968	1848	1896	1704	1848	1800	1944
		878	961	926	993	982	936	871	939	846	868	N.A.	N.A.
7-302	East Helena ACM	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
		1863	N.A.	1697	1773	1836	1807	1800	1891	1900	1955	1910	1974
7-240	East Helena AS/R	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
		2245	2347	2304	2268	2121	2068	2105	2115	2146	2200	2254	2273
7-303	Nat Cylinder Gas	1280	1312	1312	1344	1296	1312	1296	1296	1296	1312	1344	1328
		1223	1229	1206	1220	1111	1186	1187	1182	1195	1219	1211	1241

HELENA DIVISION (Contd.)

Inst. No.	Substation	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
7-230	Montana City Micro	210	210	231	231	231	294	273	273	273	273	273	273
		121	109	112	117	130	159	214	181	178	124	105	109
7-220	Kaiser Cement	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
		3203	1973	3394	3989	4460	4461	3753	4499	N.A.	4372	4192	4566
7-260	Alhambra	1080	792	840	792	1020	1020	720	768	756	912	756	756
		617	388	504	448	429	384	464	432	459	495	359	361
7-200	Boulder	1800	1380	1380	1212	1620	1320	1212	1200	1320	1440	1500	1980
		1271	928	981	612	1208	877	894	853	907	966	1056	798
7-210	Basin	260	260	N.A.	200	200	204	204	240	280	N.A.	N.A.	260
		176	138	N.A.	140	140	107	182	N.A.	152	N.A.	N.A.	220
7-90	Wolf Creek	696	504	510	480	600	588	420	600	492	474	516	582
		433	381	376	248	356	327	N.A.	395	266	301	509	338
7-80	Gilbert	780	630	780	780	510	N.A.	N.A.	N.A.	N.A.	570	540	780
		271	157	369	332	236	N.A.	N.A.	N.A.	N.A.	N.A.	321	269
7-70	Canyon Creek	1800	1680	1800	1800	1680	1320	1440	1440	1680	1680	1536	1800
		1306	1181	1144	1024	946	915	972	1000	950	N.A.	1208	982
7-101	Townsend	4200	4320	4320	3360	4560	4920	6120	3960	4200	4080	4200	4080
		2861	2304	2432	2397	3011	3682	3867	2513	3662	1866	2067	2655
7-102	Townsend REA	672	552	540	684	996	N.A.	N.A.	852	504	480	N.A.	N.A.
		451	351	392	484	520	N.A.	N.A.	570	358	348	N.A.	N.A.
7-111	Toston	576	552	480	480	480	N.A.	276	276	N.A.	N.A.	N.A.	N.A.
		327	307	279	145	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
7-120	Crow Creek W & BR	N.A.	N.A.	N.A.	N.A.	1200	1936	1936	N.A.	1792	1216	N.A.	N.A.
		N.A.	N.A.	N.A.	N.A.	940	N.A.	N.A.	N.A.	561	798	N.A.	N.A.

HELENA DIVISION (Contd.)

Inst. No.	Substation	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
7-130	Loweth No. 1	2912 1717	2912 1600	2664 1610	2726 1495	2602 1481	2664 1428	2478 1493	2416 1403	2416 1315	2602 1279	N.A. N.A.	2912 1860
7-132	White Sulphur Springs	2016 1070	864 489	816 667	768 542	1440 880	1680 947	1488 974	1536 925	1344 697	1296 1075	2160 951	2016 1100

MISSOULA DIVISION

Inst. No.	Substation	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
9-107	Hoerner-Waldorf Bank 1	7680	7488	N.A.	7872	7584	8400	7920	7440	7680	7920	8160	8400
		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
9-108	Hoerner-Waldorf Bank 2	7824	7728	7920	7920	7680	8304	7920	7680	7920	7920	8160	8400
		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
9-109	Hoerner-Waldorf Bank 3	N.A.	7680	7920	7920	7680	8400	7920	768	7920	7920	8160	N.A.
		N.A.	5579	N.A.	N.A.	5766	5699	5742	N.A.	N.A.	N.A.	6250	N.A.
9-71	Missoula #1 3.3kV	5500	5250	5000	5000	5000	6000	N.A.	6500	5500	6000	5500	N.A.
		3578	3475	3367	3340	3264	3586	3683	3678	2773	4194	3616	N.A.
9-72	Missoula #1 12.5 kV	15600	15300	12000	11100	10200	10200	N.A.	9900	N.A.	N.A.	N.A.	N.A.
		8194	8571	7540	7250	7159	7232	242	N.A.	N.A.	N.A.	N.A.	N.A.
9-221	Missoula #2 Bank 1	16320	14640	14400	10800	14160	11760	11760	N.A.	11280	17880	13200	13440
		6460	7966	6000	6217	9091	6983	7862	7345	7188	N.A.	7887	N.A.
9-222	Missoula #2 Bank 2	15168	12096	14592	12000	10464	11232	11232	11232	10560	15360	12384	11808
		3981	6593	8168	7947	N.A.	6653	7545	6759	6900	5806	4348	4883
9-220	Missoula #2 Bank 3	20160	18648	18480	7896	12768	6384	N.A.	12936	N.A.	6720	15120	20664
		N.A.	5166	4223	3757	6703	3640	4224	4055	N.A.	3811	N.A.	N.A.
9-231	Missoula #3 Bank 1	6912	6552	6624	6552	6552	6480	6984	6912	6624	6480	6192	6264
		4548	4243	4287	4230	N.A.	N.A.	3735	3703	3759	3687	3213	3455
9-232	Missoula #3 Bank 2	N.A.	12480	12000	12240	12000	11880	7200	13200	10800	13440	7200	7560
		7675	7893	7645	7600	7212	7429	4371	6828	6375	5468	4823	5103
9-120	Alberton	601	601	497	623	403	403	N.A.	N.A.	634	N.A.	N.A.	N.A.
		427	N.A.	N.A.	266	269	N.A.	N.A.	N.A.	395	N.A.	460	223
9-720	Tarkio REA	456	321	321	282	246	267	237	255	279	285	N.A.	213
		283	238	227	188	175	180	160	180	186	171	N.A.	N.A.

MISSOULA DIVISION (Contd.)

Inst. No.	Substation	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
9-[illegible]	Frenchtown W/BPW	4200	3024	2952	2976	2784	2976	2856	3264	2928	2760	3192	3408
		2744	2277	2193	1845	1837	2439	2293	2450	2134	1873	2170	2567
9-650	Corvallis	1350	954	990	936	1224	1296	1332	1332	1116	990	1080	1134
		N.A.	217	213	201	258	306	299	302	248	216	213	240
9-730	Corvallis W/BPA	4676	2800	2996	2716	3528	3472	3108	3276	2928	2464	2576	2968
		2672	1889	1825	1566	2073	2676	2414	2541	2134	1537	1637	2040
9-660	Darby	7400	6750	6500	7000	6000	5500	5500	5500	6000	6000	6500	5150
		4078	3871	3758	3542	3167	2984	2754	2813	2875	2903	3441	3763
9-140	Diamond Match	2300	2330	2230	2170	2270	2170	2140	2210	2220	2290	2410	1970
		N.A.	1441	1467	1387	1327	1357	1240	1241	1193	1277	987	N.A.
9-580	Florence	720	660	606	594	600	600	540	N.A.	N.A.	N.A.	720	N.A.
		132	324	N.A.	296	249	369	283	N.A.	N.A.	N.A.	N.A.	266
9-639	Grantsdale W/BPA	574	714	826	714	1148	1162	924	1064	812	686	854	1092
		N.A.	521	502	433	638	852	680	895	576	424	548	716
9-640	Hamilton City	3168	2720	2624	2560	2720	2944	2944	3008	2752	2624	2784	2912
		1888	1769	1595	1617	1649	1794	1883	1876	1763	1652	1733	1867
9-641	Hamilton Rural	2880	2160	1968	1968	2112	2208	2208	2400	2352	2016	2520	2664
		1663	1433	1293	1284	1333	1529	1500	1579	1468	1361	1467	1627
9-180	Haugen	420	192	192	216	192	N.A.	282	228	228	234	264	270
		146	127	120	107	110	N.A.	144	137	142	144	157	N.A.
9-570	Lolo	N.A.	4272	2904	2904	1056	2760	2880	3600	4032	4320	N.A.	3744
		N.A.	1650	N.A.	1619	623	1181	2167	N.A.	N.A.	1022	N.A.	N.A.

MISSOULA DIVISION (Contd.)

Inst. No.	Substation	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
9-690	Lolo W/BPA	3240	2304	2256	2208	2016	1800	1752	1896	2160	1776	2352	2616
		2015	1650	1643	997	847	1316	1217	1319	1241	1300	1577	1890
9-250	Plains	4368	3840	3600	3408	3600	3672	3840	3600	3600	N.A.	3984	4248
		2447	2193	2097	2119	2057	2271	2400	2219	2043	N.A.	2389	N.A.
9-710	Ravenna W/BPA	378	324	336	306	249	345	366	378	300	288	285	294
		252	213	202	175	165	219	262	283	196	171	185	215
9-190	Saltese	120	80	80	60	40	N.A.	60	60	156	176	160	172
		69	79	41	48	N.A.	N.A.	47	46	N.A.	118	133	N.A.
9-160	St. Regis	752	624	592	560	600	N.A.	576	680	688	672	720	736
		521	451	432	384	385	N.A.	444	433	437	457	490	N.A.
9-590	Stevensville	1980	1980	2358	1746	1854	1998	2088	2070	1818	1818	N.A.	2070
		N.A.	N.A.	N.A.	1193	N.A.	N.A.	N.A.	N.A.	1283	1200	N.A.	N.A.
9-610	Stevensville W/BPA	2632	812	938	882	966	882	896	938	854	728	854	966
		634	602	606	514	616	755	668	758	632	447	548	690
9-150	Superior	1440	1360	1360	1200	1200	N.A.	1600	1360	1280	1360	1520	1600
		1166	1154	897	845	828	N.A.	934	928	918	970	1067	N.A.
9-681	Thompson Falls City	2160	1968	1824	1776	1536	1392	N.A.	N.A.	1488	1440	1968	2160
		1572	1293	1163	1053	993	829	N.A.	831	920	1055	1252	1356
9-272	Thompson Falls YPL 2.4 kV	1500	1500	1400	1350	1450	1450	N.A.	1450	1400	1350	1350	1430
		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
9-510	Thompson Falls Lumber	768	832	819	742	768	N.A.	N.A.	717	768	787	672	653
		111	114	112	N.A.	N.A.	N.A.	N.A.	100	88	84	N.A.	73
9-700	Flodin Lumber	1020	1020	960	960	960	972	N.A.	912	888	1008	1008	1044
		381	375	353	357	358	330	N.A.	293	298	331	331	316

MISSOULA DIVISION (Contd.)

Inst. No.	Substation	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
9-530	Thompson River Rural	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
9-620	Victor	624	462	444	420	468	480	510	474	480	396	N.A.	504
		388	313	308	288	313	370	357	363	342	289	N.A.	342

Exhibit No. J

EXHIBIT "J"

BIG MAP SHOWING ALL MONTANA POWER COMPANY
SUBSTATIONS TO BE SUBMITTED FOR FILE

Exhibit No. 5

ESTIMATED PEAK SUBSTATION LOAD IN KILOWATTS 1975 - 1985

INST. NO.	SUBSTATION	75-76	76-77	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85
I-232	Montana St. Bank 1	5,878	5,905	5,932	5,958	5,985	6,013	6,040	6,067	6,095	6,122
I-233	Montana St. Bank 2	3,373	3,440	3,509	3,579	3,651	3,724	3,799	3,875	3,952	4,013
I-23-	Montana St. Bank 3	5,663	5,798	5,937	6,078	6,223	6,372	6,524	6,680	6,839	7,003
I-235	Montana St. Bank 4	7,300	7,750	8,200	8,700	9,200	9,700	10,200	10,700	11,200	11,700
I-230	Continental Drive 1	3,743	3,999	4,264	4,538	4,822	5,117	5,422	5,739	6,066	6,406
I-23-	Continental Drive 2	4,921	4,947	4,972	4,998	5,024	5,050	5,077	5,103	5,130	5,156
I-190	Pacific Street	5,402	5,456	5,510	5,565	5,621	5,678	5,734	5,791	5,850	5,908
I-221	Concentrator Bk. 1 Ana.	8,976	9,018	9,060	9,103	9,146	9,189	9,232	9,275	9,319	9,363
I-222	Concentrator Bk. 2 Ana.	9,634	8,707	8,780	8,854	8,928	9,003	9,078	9,155	9,231	9,309
I-223	Concentrator Bk. 3 Ana.	8,347	8,382	8,417	8,453	8,488	8,524	8,559	8,595	8,631	8,667
I-22-	Concentrator Bk. 4 Ana.	5,617	5,789	5,967	6,151	6,340	6,534	6,735	6,942	7,155	7,375
I-225	Concentrator Bk. 5 Ana.	6,181	6,191	6,201	6,211	6,221	6,231	6,241	6,251	6,261	6,271
I-651	Corra Bank 1 Ana.	3,619	3,737	3,856	3,977	4,101	4,626	4,354	4,484	4,616	4,750
I-652	Corra Bank 3 Ana.	1,453	1,308	1,172	1,043	921	807	699	597	500	410
I-653	Corra Bank 5 Ana.	1,862	1,878	1,894	1,910	1,926	1,943	1,959	1,975	1,992	2,010
I-663	Kelly Mine Ana.	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200

EXHIBIT "K"

INST. NO.	SUBSTATION	75-76	76-77	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85
1-661	Kelly Compressor 1 Ana.	4,489	5,093	5,735	6,418	7,145	7,917	8,739	9,613	10,543	11,532
1-662	Kelly Compressor 2 Ana.	2,943	3,063	3,184	3,307	3,432	3,558	3,687	3,817	3,950	4,084
1-332	Hayes Street Ana.	778	780	782	784	786	788	791	794	797	800
1-240	Tailings Boost Ana.	3,100	3,200	3,300	3,400	3,500	3,600	3,700	3,800	3,900	4,000
1-290	Ramsay Pump Ana.	800	800	800	800	800	800	800	800	800	800
1-215	Anaconda Smelter Ana.	7,500	7,500	7,500	7,500	7,500	7,500	7,500	7,500	7,500	7,500
1-216	Comp. Sub-Smelter	5,300	5,300	5,300	5,300	5,300	5,300	5,300	5,300	5,300	5,300
1-241	Crshr. Sub - Bk. 1 Ana.	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
1-242	Crshr. Sub - Bk. 2 Ana.	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
1-243	Precip. Sub Bk. 1	6,413	6,477	6,542	6,607	6,673	6,740	6,808	6,876	6,944	7,014
1-244	Precip. Sub Bk. 2	1,850	1,903	1,957	2,011	2,067	2,124	2,182	2,241	2,301	2,362
1-94	Anaconda City Sub	2,564	2,667	2,773	2,884	3,000	3,119	3,244	3,374	3,509	3,650
1-91	Anaconda City No. 1	3,104	3,166	3,229	3,293	3,360	3,427	3,496	3,565	3,637	3,710
1-92	Anaconda City No. 2	3,698	3,777	3,858	3,940	4,024	4,109	4,197	4,286	4,377	4,471
1-310	Divide	3,484	3,869	4,297	4,772	5,300	5,886	6,537	7,260	8,063	8,954
1-590	Divide W/BPA	989	1,059	1,134	1,214	1,300	1,392	1,491	1,596	1,709	1,831
1-120	Deer Lodge - Mill Shop	357	378	401	425	450	477	505	536	567	601

INST. NO.	SUBSTATION	75-76	76-77	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85
1-131	Deer Lodge City 4.16 kV	1,863	1,878	1,893	1,907	1,922	1,938	1,953	1,969	1,984	2,000
1-132	Deer Lodge City 12.5 kV	2,737	2,846	2,960	3,078	3,201	3,329	3,463	3,601	3,745	3,896
1-140	Deer Lodge Gas Pump	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650
1-160	Montana Phosphate Sub	2,500	2,670	2,853	3,048	3,256	3,478	3,716	3,969	4,241	4,530
1-170	Gold Creek	1,278	1,316	1,356	1,397	1,438	1,482	1,526	1,572	1,619	1,668
1-181	Drummond City	1,787	1,834	1,882	1,932	1,982	2,034	2,088	2,143	2,199	2,257
1-540	Drummond W/BPA	5,400	5,750	6,200	6,600	7,000	7,500	8,000	8,500	9,100	9,700
1-183	Drummond Pump	860	860	860	860	860	860	860	860	860	860
1-380	Foster Creek	953	972	992	1,011	1,032	1,052	1,073	1,095	1,117	1,139
1-360	Philipsburg City	1,218	1,241	1,263	1,287	1,310	1,334	1,359	1,393	1,408	1,434
1-592	Stone Creek W/BPA	1,525	1,550	1,575	1,600	1,625	1,650	1,675	1,700	1,725	1,750
1-570	Bannack REA	2,407	2,666	2,953	3,270	3,622	4,011	4,443	4,920	5,449	6,035
1-600	Silver Star REA	574	602	632	663	696	730	766	804	844	885
1-610	Whitehall REA	460	476	492	508	525	543	561	579	599	619
1-580	Dillon REA	2,614	2,795	2,988	3,194	3,414	3,650	3,902	4,171	4,459	4,767
1-530	Dell REA	1,382	1,486	1,597	1,717	1,847	1,985	2,135	2,295	2,468	2,653
1-421	Dillon City 4.16 kV	5,996	6,188	6,387	6,592	6,803	7,022	7,247	7,480	7,720	7,968

INST. NO.	SUBSTATION	75-76	76-77	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85
1-422	Dillon City 12.5 kV	2,500	2,575	2,652	2,732	2,813	2,898	2,985	3,075	3,167	3,262
1-425	Dillon Airport	800	900	1,000	1,100	1,200	1,300	1,400	1,500	1,600	1,700
1-430	Point of Rocks	1,041	1,068	1,095	1,123	1,152	1,181	1,211	1,242	1,274	1,306
1-440	Sheridan	1,915	2,015	2,120	2,230	2,346	2,468	2,596	2,731	2,873	3,023
1-500	Virginia City	391	396	400	405	410	415	420	425	431	436
1-451	Twin Bridges	1,180	1,245	1,314	1,386	1,462	1,543	1,628	1,717	1,812	1,911
1-480	Whitehall	1,120	1,147	1,174	1,201	1,229	1,258	1,288	1,318	1,349	1,381
1-291	Renova Distribution	650	670	690	710	730	750	775	800	825	850

ENGR. NO.	SUBSTATION	75-76	76-77	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85
2-131	City Sub - No. Bank	13,500	14,000	14,700	15,500	16,300	17,000	17,900	18,900	19,900	21,000
2-132	City Sub - So. Bank	14,400	15,100	15,900	16,700	17,600	18,600	19,600	20,600	21,600	22,600
2-1-1	East Side - So. Bank	13,327	13,768	14,225	14,697	15,184	15,687	16,207	16,745	17,300	17,874
2-1-2	East Side - No. Bank	13,499	14,077	14,679	15,307	15,962	16,645	17,357	18,100	18,874	19,682
2-150	South Side - E. Bank	9,878	10,322	10,787	11,272	11,780	12,309	12,863	13,443	14,048	14,680
2-151	South Side - W. Bank	6,306	6,539	6,781	7,033	7,293	7,563	7,843	8,134	8,435	8,748
2-1310	Northwest Sub	10,610	11,034	11,475	11,935	12,412	12,909	13,425	13,962	14,520	15,101
2-1020	Black Eagle Sub	18,687	18,919	19,153	19,391	19,632	19,875	20,122	20,372	20,625	20,881
2-1026	Phillips Refinery	2,188	2,224	2,260	2,297	2,335	2,373	2,412	2,451	2,491	2,532
2-1360	Malmstrom AFB	8,005	12,000	12,155	12,313	12,473	12,685	12,799	12,966	13,134	13,305
2-1030	Highwood REA	1,075	1,150	1,200	1,250	1,321	1,397	1,477	1,562	1,652	1,746
2-100	Mission Road	2,250	2,295	2,340	2,390	2,435	2,480	2,530	2,580	2,640	2,690
2-101	Adel (Cascade)	170	170	170	170	170	170	170	170	170	170
2-160	Wayne Pump (Fife)	1,017	1,024	1,031	1,039	1,046	1,054	1,061	1,069	1,077	1,084
2-170	Raynesford Pump	4,200	4,400	4,600	4,850	5,050	5,400	5,700	5,900	6,200	6,500
2-180	Monarch Valley	706	638	771	806	842	880	920	961	1,004	1,049
2-191	Kings Hill (Old T Bar)	190	190	190	190	190	190	190	190	190	190

INST. NO.	SUBSTATION	75-76	76-77	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85
2-261	Vaughn	1,126	1,244	1,374	1,517	1,676	1,851	2,044	2,257	2,493	2,754
2-290	Papin Gravel	175	175	175	175	175	175	175	175	175	175
2-300	Ashuelot W/BR	2,700	2,600	2,500	2,450	2,400	2,350	2,300	2,250	2,200	2,150
2-310	Fort Shaw W/BR	2,100	2,100	2,100	2,100	2,100	2,100	2,100	2,100	2,100	2,100
2-311	Fairfield	1,118	1,149	1,181	1,214	1,248	1,283	1,319	1,356	1,394	1,433
2-320	Fairfield W/BR	1,400	1,425	1,450	1,475	1,500	1,525	1,550	1,575	1,600	1,625
2-312	Fairfield - Augusta	575	591	607	623	640	657	675	693	712	631
2-330	Bole	200	200	200	200	200	200	200	200	200	200
2-340	Choteau	2,741	2,862	2,989	3,122	3,260	3,404	3,555	3,712	3,877	4,049
2-350	Pendroy W/BR	1,578	1,594	1,610	1,626	1,642	1,658	1,675	1,692	1,709	1,726
2-360	Pondera Oil Field	304	309	313	318	323	328	333	339	344	350
2-370	Conrad Pump	409	409	409	409	409	410	410	410	410	410
2-1330	Conrad 24 kV Line	3,693	3,891	4,099	4,319	4,550	4,794	5,050	5,321	5,606	5,906
2-1222	South Valier W/BR	820	882	949	1,021	1,099	1,183	1,272	1,369	1,473	1,585
2-1221	North Conrad W/BR	891	914	938	963	988	1,014	1,042	1,069	1,098	1,128
2-380	Conrad City	4,308	4,513	4,726	4,951	5,185	5,431	5,689	5,958	6,241	6,537
2-390	Brady	1,390	1,410	1,432	1,453	1,475	1,497	1,519	1,542	1,565	1,589

INST. NO.	SUBSTATION	75-76	76-77	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85
2-400	Brady W/BR	1,723	1,757	1,792	1,828	1,865	1,902	1,940	1,979	2,018	2,059
2-1090	Cut Bank Pump	4,900	5,300	5,700	6,000	6,400	6,800	7,300	7,800	8,500	9,000
2-410	Dutton	1,217	1,244	1,272	1,301	1,330	1,360	1,391	1,422	1,454	1,487
2-420	Dutton Pump	3,415	3,590	3,781	3,990	4,218	4,466	4,738	5,034	5,357	5,710
2-430	Power Town	1,101	1,146	1,193	1,244	1,298	1,356	1,418	1,484	1,555	1,631
2-280	Treasure State Industries	160	161	162	163	165	167	169	171	173	175
2-460	Portage	605	631	658	686	715	746	778	811	846	882
2-440	Carter	420	429	439	449	459	469	480	491	502	513
2-450	Fort Benton	3,372	3,473	3,577	3,685	3,795	3,909	4,026	4,147	4,271	4,400
2-480	Loma	261	267	273	278	285	291	297	304	310	317
2-490	So. Virgelle W/BR	454	522	600	690	794	913	1,050	1,208	1,389	1,598
2-500	Big Sandy	1,332	1,358	1,384	1,411	1,438	1,466	1,494	1,523	1,553	1,583
2-1320	Big Sandy REA	839	873	908	944	982	1,022	1,063	1,106	1,150	1,196
2-511	Box Elder	708	750	795	842	893	946	1,002	1,061	1,125	1,191
2-2010	HoppIlliad W/BR	487	489	490	492	494	496	498	499	501	503
2-2020	Laredo (RKYBOY) W/BR	1,526	1,650	1,784	1,928	2,085	2,253	2,436	2,633	2,847	3,078
2-1970	Stevens Pump	360	360	360	360	360	360	360	360	360	360
2-520	Goosebill REA W/BR	181	184	188	192	195	199	203	207	212	216

INST. NO.	SUBSTATION	75-76	76-77	77-78	78-79	79 80	80-81	81-82	82-83	83-84	84-85
2-530	Chester	1,728	1,780	1,833	1,888	1,944	2,003	2,063	2,125	2,188	2,255
2-540	Joplin	337	346	356	366	376	387	398	409	420	432
2-550	Inverness	209	213	217	221	226	230	235	240	244	250
2-560	Rudyard	548	558	570	581	593	605	617	629	642	654
2-570	Hingham	425	433	440	448	456	464	472	480	488	497
2-580	Gildford	334	339	345	351	357	363	369	375	381	388
2-590	Kremlin	299	308	317	327	336	346	357	367	378	389
2-591	Kremlin W/BR	380	380	380	380	380	380	380	380	380	380
2-600	Havre City	8,906	9,262	9,632	10,018	10,418	10,835	11,268	11,719	12,188	12,676
2-601	Havre E. Bank No. 1	1,946	2,062	2,186	2,317	2,456	2,604	2,760	2,926	3,101	3,288
2-602	Havre W. Bank No. 3	2,289	2,426	2,572	2,726	2,890	3,064	3,247	3,442	3,649	3,868
2-220	Havre Highland Park	5,000	5,200	5,408	5,624	5,849	6,083	6,326	6,580	6,842	7,116
2-630	Lohman	662	701	741	784	830	878	929	982	1,039	1,100
2-640	Lohman REA	1,272	1,362	1,460	1,564	1,675	1,795	1,923	2,060	2,208	2,365
2-650	Chinook	3,047	3,181	3,320	3,465	3,616	3,774	3,939	4,112	4,291	4,479
2-651	No. Chinook W/BR	226	242	259	277	297	318	340	364	390	417
2-660	Zurich	611	638	667	696	727	759	793	828	865	903

INST. NO.	SUBSTATION	75-76	76-77	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85
2-665	Mohar W/BR	139	143	147	151	156	161	165	170	176	181
2-670	Harlem	2,608	2,765	2,931	3,106	3,293	3,490	3,700	3,921	4,157	4,406
2-681	Harlem REA W/BR	1,588	1,693	1,805	1,925	2,053	2,190	2,335	2,490	2,656	2,832
2-682	No. Harlem W/BR	85	91	97	103	110	117	125	133	142	151
2-690	Dodson	416	422	428	434	440	446	452	459	465	472
2-1050	Dodson W/BR	98	103	109	116	122	129	137	145	153	162
2-700	Wagner	249	253	259	264	269	274	280	286	291	298
2-1040	Wagner W/BR	2,079	2,226	2,384	2,553	2,733	2,926	3,133	3,355	3,592	3,846
2-710	Malta	3,347	3,456	3,570	3,687	3,809	3,934	4,063	4,196	4,334	4,477
2-712	Malta E. Rural	750	790	825	870	910	955	1,003	1,053	1,106	1,161
2-720	Saco W/BR	741	807	879	958	1,043	1,137	1,238	1,349	1,469	1,601
2-730	Saco	327	334	340	347	353	360	367	374	382	389
2-240	Saco Alfalfa Plant	362	371	382	392	402	413	424	436	448	460
2-750	Hinsdale Town	425	435	450	460	475	490	510	530	550	570
2-740	Hinsdale W/BR	773	828	888	952	1,020	1,093	1,172	1,256	1,346	1,443
2-760	Tampico	38	40	42	45	47	50	52	55	58	61

INST. NO.	SUBSTATION	75-76	76-77	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85
2-780	Glasgow West Side	4,826	5,163	5,525	5,912	6,326	6,768	7,242	7,749	8,291	8,872
2-790	Glasgow East Side	3,682	3,939	4,215	4,510	4,826	5,164	5,525	5,912	6,326	6,769
2-810	Glasgow AFB	3,450	3,525	3,600	3,675	3,750	3,800	3,850	3,900	4,000	4,100
2-850	Nashua	632	641	651	661	671	682	692	703	714	724
2-880	Fife	274	280	287	293	300	307	314	321	328	336
2-920	Ulm	2,700	3,000	3,210	3,430	3,680	3,930	4,210	4,500	4,820	5,150
2-950	Stockett	1,156	1,211	1,269	1,330	1,393	1,403	1,530	1,603	1,679	1,760
2-960	Belt	2,000	2,113	2,233	2,359	2,492	2,633	2,782	2,940	3,106	3,282
2-970	Armington W/BR	243	248	253	258	264	269	275	281	287	293

INST. NO.	SUBSTATION	75-76	76-77	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85
3-110	Anderson	25	25	26	26	27	27	28	28	29	30
3-120	Broadview	580	593	607	621	635	649	664	678	696	709
3-125	Jensen	290	295	301	307	313	320	326	333	339	347
3-130	Ivanhoe No. 1	2,085	2,265	2,468	2,696	2,955	3,247	3,577	3,950	4,371	4,846
3-140	Little Wall No. 2	564	573	582	591	601	611	620	630	640	650
3-150	Willow Creek No. 3	310	316	322	328	335	342	349	356	363	370
3-160	Roundup No. 4	773	785	797	809	821	834	846	859	871	884
3-170	Cushman	25	26	27	28	30	31	33	35	36	39
3-180	Gage	914	996	1,084	1,180	1,285	1,399	1,524	1,659	1,807	1,967
3-190	Ivanhoe	1,143	1,190	1,239	1,290	1,344	1,399	1,475	1,517	1,580	1,645
3-195	Keefer-Eklund	240	244	249	254	259	264	270	275	281	286
3-200	Lavina	490	507	523	541	559	578	597	617	638	659
3-210	Lavina (Fergus REA)	100	120	120	130	133	137	142	146	150	155
3-220	Melstone No. 1	865	882	899	917	936	955	974	993	1,013	1,033
3-230	Mountain States Mine	170	170	170	170	170	170	170	170	170	170
3-240	Musselshell	487	516	546	578	613	649	687	727	770	815
3-250	Roundup	3,116	3,209	3,305	3,404	3,507	3,612	3,720	3,832	3,947	4,065

INST. NO.	SUBSTATION	75-76	76-77	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85
3-260	Roundup - Fergus REA	5,211	5,732	6,305	6,935	7,628	8,390	9,228	10,150	11,164	12,279
3-270	Roundup - McCone REA	1,443	1,485	1,529	1,575	1,621	1,669	1,719	1,770	1,822	1,876
3-280	Ryegate	527	553	579	607	636	666	698	732	767	804
3-290	Ryegate - Fergus REA	400	500	500	550	570	591	613	636	660	684
3-300	Sumatra	3,366	3,480	3,598	3,720	3,846	3,976	4,111	4,250	4,394	4,543
3-330	Clark Ranch	45	45	46	47	48	49	50	51	52	53
3-331	Westmoreland	4,480	4,704	4,939	15,565	26,191	27,500	28,875	30,319	31,835	33,427
3-340	Colstrip Town	3,100	3,286	3,483	3,692	3,913	4,148	4,397	4,661	4,940	5,237
3-350	Colstrip (Shop)	448	451	454	457	460	463	466	469	472	476
3-361	Armell's Creek	5,000	17,500	17,500	17,500	17,500	17,500	17,500	22,000	22,000	22,000
3-360	Colstrip (No. 6-C)	1,847	2,002	2,170	2,353	2,551	2,765	2,998	3,250	3,523	3,819
3-370	Colstrip (Peabody)	2,249	2,433	2,632	2,848	3,082	3,335	3,608	3,904	4,224	4,571
3-380	Dringman	59	60	61	62	63	65	66	67	69	70
3-390	Farley Ranch	25	25	26	26	27	27	28	28	29	30
3-400	Greer	45	45	46	47	48	49	50	51	52	53
3-410	Hardin	3,500	3,616	3,735	3,859	3,986	4,118	4,254	4,395	4,540	4,690
3-440	Hardin - Big Horn REA	5,647	5,997	6,369	6,764	7,183	7,629	8,102	8,604	9,138	9,704

INST. NO.	SUBSTATION	75-76	76-77	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85
3-420	Hardin Feed Mill	475	500	525	550	575	600	625	650	675	700
3-430	Hardin Road	1,000	1,050	1,100	1,150	1,200	1,275	1,350	1,425	1,500	1,600
3-431	Lockwood REA	1,600	1,800	2,100	2,400	2,750	3,140	3,600	4,110	4,700	5,390
3-436	Schaark REA	592	616	640	670	700	725	760	790	825	860
3-450	Pryor (Yel. Val. REA)	1,198	1,288	1,383	1,486	1,597	1,716	1,844	1,981	2,128	2,287
3-460	Tongue River REA	6,500	6,695	6,895	7,102	7,315	7,535	7,761	7,994	8,234	8,481
3-470	Tullock Creek	32	32	33	33	34	35	36	36	37	38
3-480	Yellowtail (Big Horn)	563	579	597	615	633	652	672	692	713	734
3-490	Billings Rimrock	8,377	8,740	9,119	9,515	9,928	10,359	10,808	11,277	11,766	12,277
3-510	Billings Steam Plant	7,000	7,420	7,865	8,337	8,837	9,367	9,929	10,525	11,156	11,826
3-520	Billings City Sub No. 1	5,185	5,340	5,500	5,665	5,835	6,010	6,191	6,376	6,568	6,765
3-530	Billings City Sub No. 2	6,198	6,445	6,703	6,971	7,250	7,540	7,842	8,156	8,482	8,821
3-540	Billings City Sub No. 3	5,103	5,530	5,994	6,496	7,040	7,630	8,269	8,962	9,713	10,527
3-550	Billings City Sub No. 4	4,752	4,929	5,112	5,302	5,499	5,704	5,916	6,136	6,365	6,602
3-580	Billings East Side	10,252	10,662	11,088	11,532	11,993	12,473	12,972	13,490	14,030	14,591
3-581	Billings East Side 12.5 kV	4,000	4,200	4,410	4,630	4,862	5,105	5,360	5,628	5,909	6,205
3-590	Billings Continental Ref.	11,380	12,980	15,280	16,280	16,823	17,359	17,925	18,524	19,157	19,827

INST. NO.	SUBSTATION	75-76	76-77	77-78	78 79	79-80	80-81	81-82	82-83	83-84	84-85
3-600	Billings Cont. Pipe 5	2,376	2,617	2,882	3,174	3,495	3,849	4,239	4,668	5,141	5,661
3-610	Billings Humble No. 1	12,454	13,734	15,146	16,704	18,421	20,315	22,403	24,706	27,246	30,048
3-620	Billings Humble No. 2	9,692	9,609	9,526	9,444	9,363	9,283	9,203	9,124	9,045	8,968
3-630	Billings Humble No. 3	11,000	11,500	12,000	12,500	13,000	13,500	14,250	15,000	16,000	17,000
3-640	Billings Seminoe	4,600	4,700	4,950	5,100	5,250	5,500	5,700	5,900	6,100	6,400
3-650	Huntley - Yel.Val. REA	5,550	6,350	7,350	8,350	9,350	10,469	11,723	13,127	14,699	16,460
3-660	Billings Bellrock 1	10,537	10,853	11,179	11,515	11,861	12,217	12,584	12,962	13,351	13,752
3-670	Billings Bellrock 2	11,041	11,372	11,713	12,064	12,426	12,799	13,183	13,579	13,986	14,406
3-680	Billings 8th West 1	11,300	11,600	12,000	12,400	12,700	13,000	13,400	13,800	14,100	14,500
3-690	Billings 8th West 2	11,800	12,154	12,518	12,894	13,281	13,679	14,089	14,512	14,947	15,396
3-691	Billings 8th West 3	11,200	11,536	11,882	12,238	12,605	12,983	13,373	13,774	14,187	14,613
3-700	Absarokee	692	722	753	785	818	853	890	928	968	1,009
3-710	Absarokee REA	1,331	1,410	1,495	1,584	1,679	1,779	1,885	1,998	2,118	2,244
3-730	Columbus	2,148	2,305	2,473	2,654	2,848	3,056	3,279	3,518	3,775	4,050
3-740	Columbus (B.T. REA)	1,513	1,630	1,757	1,893	2,039	2,197	2,367	2,550	2,747	2,960
3-750	Columbus - Cattlefield	103	106	109	112	115	118	121	124	127	130

INST. NO.	SUBSTATION	75-76	76-77	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85
3-770	Columbus - Holmgren	56	57	59	61	63	64	66	68	70	73
3-780	Columbus - Pierce Ranch	25	25	26	27	28	28	29	30	31	33
3-790	Columbus - Pierce - Goddard	105	109	113	118	122	127	132	138	143	149
3-795	Columbus Pump	1,117	1,158	1,200	1,243	1,288	1,335	1,383	1,434	1,486	1,539
3-800	Laurel East Bank	5,737	6,199	6,699	7,239	7,823	8,454	9,135	9,872	10,668	11,528
3-825	Laurel Pump	869	891	914	938	962	986	1,012	1,038	1,064	1,092
3-840	Laurel - Cenex	7,800	7,956	8,115	8,277	8,442	8,611	8,784	8,959	9,138	9,321
3-850	Mossmain (Yel. Val. REA)	3,450	4,100	4,800	5,680	6,700	7,919	9,351	11,042	13,038	15,395
3-860	Nye (B.T. REA)	578	632	690	753	822	898	981	1,071	1,170	1,277
3-870	Park City	490	525	550	590	630	665	705	750	800	850
3-880	Park City - YelVal. REA	1,500	1,700	1,950	2,200	2,500	2,840	3,225	3,670	4,170	4,730
3-890	Reed Point	282	299	318	338	359	381	404	429	456	484
3-900	Reed Point - B. T. REA	528	570	614	662	714	770	831	896	966	1,042
3-910	Reed Point - FAW	24	24	25	26	27	27	28	29	30	31
3-920	Bear Creek	78	80	82	85	87	90	93	95	98	101
3-930	Bridger	696	730	767	805	845	888	932	979	1,028	1,079
3-935	Bridger - Chance	1,980	2,059	2,141	2,227	2,316	2,408	2,505	2,605	2,709	2,818
3-940	Bridger Pump	1,440	1,468	1,496	1,524	1,553	1,583	1,613	1,644	1,675	1,707

INST. NO.	SUBSTATION	75-76	76-77	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85
3-950	Dry Creek	268	303	344	391	446	510	586	673	776	895
3-975	Rockvale	600	630	661	694	729	765	804	844	846	930
3-980	Fromberg	1,490	1,600	1,710	1,820	1,946	2,082	2,227	2,383	2,549	2,726
3-970	Edgar - B. T. REA	1,471	1,571	1,678	1,792	1,914	2,044	2,183	2,332	2,491	2,660
3-1010	Red Lodge	2,794	2,999	3,219	3,455	3,708	3,980	4,272	4,585	4,921	5,281
3-1015	Luther - B. T. REA	420	510	600	700	735	771	810	850	893	938
3-1020	Red Lodge Grizzly Peak	481	535	594	661	734	816	907	1,008	1,121	1,246
3-1030	Red Lodge B. T. REA	1,250	1,358	1,474	1,602	1,739	1,889	2,052	2,229	2,421	2,629
3-1040	Silesia	25	25	26	26	27	27	28	28	29	30

INST. NO.	SUBSTATION	75-76	76-77	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85
4-170	Barber	168	174	180	187	195	204	213	224	237	250
4-510	Denton	1,691	1,697	1,702	1,708	1,714	1,720	1,724	1,732	1,738	1,744
4-540	Geraldine	1,582	1,663	1,748	1,837	1,932	2,030	2,134	2,244	2,359	2,479
4-560	Geyser	90	92	95	98	101	104	107	110	114	117
4-990	Fergus REA (Geyser)	930	984	1,041	1,102	1,166	1,234	1,306	1,382	1,462	1,547
4-260	Glengarry REA	1,185	1,208	1,232	1,257	1,282	1,308	1,334	1,361	1,388	1,416
4-30	Groveland	355	362	369	376	384	391	399	407	415	424
4-420	Hanover Jct.	167	170	173	177	180	184	188	191	195	199
4-13	Harlowton Dist.	2,054	2,086	2,118	2,151	2,184	2,217	2,251	2,286	2,321	2,357
4-120	Harlowton REA	843	913	989	1,071	1,160	1,256	1,361	1,474	1,596	1,728
4-440	Kolin REA	428	451	474	499	526	553	582	613	645	679
4-290	Heath U. S. Gypsum	957	960	964	967	971	974	978	981	984	988
4-280	Heath REA	1,280	1,300	1,330	1,370	1,400	1,440	1,480	1,520	1,560	1,600
4-350	Hilger REA	5,475	5,728	5,993	6,269	6,559	6,862	7,179	7,510	7,857	8,220
4-211	Judith Gap	357	362	367	372	377	382	387	392	398	404

INST. NO.	SUBSTATION	75-76	76-77	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85
4-212	Judith Gap Glacier	2,050	2,091	2,132	2,175	2,218	2,263	2,308	2,354	2,401	2,450
4-268	Berg Sawmill	900	927	954	983	1,012	1,043	1,074	1,106	1,140	1,174
4-270	Lewistown No. 1	2,633	2,690	2,749	2,809	2,870	2,933	2,997	3,063	3,130	3,198
4-310	Lewistown No. 2	6,120	6,230	6,341	6,454	6,569	6,687	6,806	6,928	7,052	7,178
4-410	Lewistown No. 3 Peavy	232	236	240	244	248	252	257	261	265	270
4-550	Merino B-1	53	54	55	56	57	58	59	60	62	63
4-450	Moccasin	519	529	539	550	561	573	584	596	608	620
4-240	Moore	963	981	1,000	1,020	1,041	1,063	1,087	1,111	1,137	1,164
4-200	Nihill	750	750	800	850	892	937	983	1,033	1,084	1,139
4-220	Straw	799	821	843	866	890	915	940	966	992	1,019
4-340	Lewistown Radar	240	244	249	254	259	264	270	275	281	286
4-430	Rossfork M-11	42	42	43	44	45	46	47	48	49	50
4-230	Royston	25	25	26	26	27	27	28	28	29	30
4-231	Ruby Gulch REA	800	850	850	875	900	928	957	986	1,015	1,046
4-140	Shawmut	99	100	102	105	107	109	111	113	115	118

INST. NO.	SUBSTATION	75-76	76-77	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85
4-150	Shawmut REA	25	25	26	26	27	27	28	28	29	30
4-501	Stanford City	2,158	2,306	2,464	2,633	2,813	3,005	3,211	3,431	3,666	3,917
4-21	Two Dot	185	196	207	220	233	247	262	278	294	312
4-40	Utica	1,047	1,125	1,209	1,299	1,396	1,499	1,611	1,731	1,860	2,000
4-41	Glacier Pump	1,000	1,020	1,040	1,061	1,082	1,104	1,126	1,148	1,171	1,195
4-460	Windham	986	1,071	1,163	1,264	1,373	1,491	1,620	1,760	1,912	2,077
4-130	Winnecook K-6	32	32	33	33	34	35	36	36	37	38
4-530	Square Butte	15	15	15	15	16	16	16	17	17	18

INST. NO.	SUBSTATION	75-76	76-77	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85
6-251	BOZ Southside No. 1	4,507	4,671	4,838	5,009	5,185	5,364	5,548	5,736	5,928	6,125
6-252	BOZ Southside No. 2	5,388	5,411	5,434	5,458	5,481	5,505	5,529	5,552	5,576	5,600
6-250	Southside No. 3 - BOZ	4,700	4,850	5,000	5,150	5,300	5,500	5,650	5,800	5,950	6,100
6-241	Bozeman Northside	6,128	6,434	6,756	7,093	7,448	7,821	8.212	8,622	9,053	9,506
6-320	BOZ Sourdough	5,633	5,879	6,135	6,403	6,682	6,974	7,278	7,596	7,927	8,273
6-321	East Gallatin	4,600	4,830	5,071	5,325	5,591	5,870	6,164	6,472	6,796	7,136
6-220	Belgrade	3,962	4,111	4,265	4,425	4,590	4,762	4,941	5,126	5,318	5,517
6-222	Mountain Village	11,000	14,500	19,000	23,000	23,920	24,880	25,870	26,900	27,980	29,100
6-311	BOZ Hot Springs	4,143	4,587	5,080	5,625	6,229	6,898	7,639	8,459	9,367	10,371
6-243	Meadow Village	3,500	5,000	6,000	7,000	7,280	7,570	7,870	8,190	8,520	8,850
6-300	Cherry Creek	80	85	90	96	102	109	116	123	131	139
6-610	Ebert - Windsor	328	355	385	417	451	488	528	572	619	670
6-180	Ennis	1,350	1,390	1,432	1,475	1,519	1,565	1,611	1,660	1,710	1,761
6-710	Green Ranch	150	153	156	159	162	165	168	172	175	179
6-200	Logan	108	111	114	118	121	125	128	132	136	140
6-130	Madison Storage	430	434	437	441	444	448	451	455	458	462

INST. NO.	SUBSTATION	75-76	76-77	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85
6-190	Madison Valley	800	843	889	937	988	1,042	1,098	1,158	1,221	1,287
6-211	Manhattan	1,938	2,015	2,096	2,179	2,267	2,357	2,452	2,550	2,652	2,758
6-143	KYD Pump	2,700	2,754	2,809	2,865	2,922	2,981	3,040	3,101	3,163	3,226
6-150	Ideal Cement	6,218	6,285	6,353	6,421	6,490	6,560	6,630	6,702	6,774	6,846
6-151	Three Forks	1,730	1,799	1,871	1,946	2,023	2,104	2,189	2,276	2,367	2,462
6-152	Three Forks No. 2	1,920	2,092	2,281	2,486	2,710	2,954	3,220	3,509	3,825	4,170
6-361	Livingston City	4,300	4,429	4,561	4,698	4,839	4,984	5,134	5,288	5,447	5,610
6-362	Livingston N. Side	4,095	4,217	4,344	4,474	4,608	4,747	4,889	5,036	5,187	5,343
6-363	Downer Sub	137	139	142	145	148	151	154	157	160	163
6-650	Big Timber	1,899	1,988	2,082	2,179	2,282	2,389	2,501	2,618	2,741	2,870
6-420	Chico	30	30	31	31	32	33	33	34	35	36
6-660	Melville	521	541	561	583	605	628	652	677	703	730
6-450	Brogan	275	280	285	290	295	300	305	310	320	330
6-470	Gardiner	1,372	1,441	1,514	1,592	1,673	1,758	1,848	1,943	2,043	2,147
6-670	Grey Cliff	267	275	283	292	301	310	319	329	339	349
6-620	Hunters Hot Springs	197	204	212	220	228	237	246	256	265	276
6-601	Burkland Lumber	524	533	543	552	562	571	581	591	601	612

INST. NO.	SUBSTATION	75-76	76-77	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85
6-340	Muir	300	305	310	315	320	325	330	335	340	345
6-602	Park Lumber	288	293	299	305	311	317	324	330	337	344
6-630	Springdale Pump	2,361	2,547	2,748	2,964	3,198	3,450	3,722	4,016	4,333	4,674
6-380	Manhattan Pump	1,544	1,678	1,824	1,983	2,155	2,342	2,546	2,767	3,007	3,268
6-500	Mammoth	1,131	1,255	1,391	1,540	1,704	1,884	2,081	2,297	2,534	2,794
6-510	Norris Junction	59	65	72	80	89	99	110	122	136	152
6-520	Canyon	961	1,021	1,085	1,152	1,224	1,300	1,381	1,467	1,559	1,656
6-530	Lake Fishing Bridge	2,175	2,409	2,669	2,956	3,274	3,627	4,017	4,449	4,928	5,458
6-540	West Thumb	546	600	659	725	796	875	962	1,057	1,162	1,277
6-550	Madison Junction	68	69	70	72	73	75	76	78	79	81
6-560	Old Faithful	2,022	2,277	2,565	2,888	3,253	3,664	4,127	4,648	5,235	5,896
6-690	Big Timber REA	718	754	792	831	873	916	962	1,009	1,060	1,112
6-640	McLeod REA	405	420	435	447	463	480	498	516	535	554
6-410	Chico REA	1,342	1,489	1,652	1,833	2,034	2,257	2,505	2,779	3,084	3,422
6-350	Clyde Park REA	1,444	1,490	1,537	1,585	1,635	1,687	1,740	1,795	1,852	1,910
6-390	Livingston REA	754	784	814	846	878	912	948	985	1,023	1,062
6-330	Mount Ellis W/BR	550	575	600	625	650	675	700	730	760	790

INST. NO.	SUBSTATION	75-76	76-77	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85
7-301	East Helena Town/Rural	9,860	11,137	12,579	14,207	16,047	18,124	20,470	23,121	26,114	29,495
7-321	Helena East Side 1	5,729	6,102	6,498	6,920	7,370	7,849	8,359	8,902	9,480	10,096
7-322	Helena East Side 2	5,733	5,812	5,892	5,974	6,059	6,145	6,234	6,324	6,417	6,512
7-331	Helena Front Street 1	5,572	5,794	6,026	6,267	6,518	6,779	7,050	7,332	7,625	7,930
7-332	Helena Front Street 2	4,006	4,166	4,332	4,506	4,686	4,873	5,068	5,271	5,482	5,701
7-351	Helena West Side 1	5,420	5,531	5,644	5,759	5,877	5,997	6,120	6,245	6,373	6,503
7-352	Helena West Side 2	8,100	8,700	9,400	10,100	10,800	11,500	12,200	12,900	13,600	14,300
7-320	Yellowstone Pipe	2,121	2,131	2,141	2,152	2,162	2,172	2,182	2,193	2,203	2,213
7-302	East Helena ACM	2,680	2,733	2,787	2,842	2,898	2,955	3,013	3,072	3,133	3,194
7-240	East Helena AS/R	2,887	2,949	3,013	3,079	3,145	3,213	3,283	3,354	3,427	3,501
7-303	Nat Cylinder Gas	1,328	1,334	1,340	1,346	1,352	1,358	1,363	1,369	1,375	1,381
7-230	Montana City Micro	363	375	388	400	413	427	441	455	470	486
7-220	Kaiser Cement	5,497	5,507	5,518	5,528	5,539	5,550	5,561	5,571	5,582	5,593
7-260	Alhambra	1,396	1,596	1,824	2,085	2,384	2,725	3,114	3,560	4,069	4,651
7-200	Boulder	2,444	2,615	2,798	2,995	3,204	3,429	3,669	3,926	4,202	4,496
7-20	Basin	246	255	266	276	287	299	311	323	336	350
7-90	Wolf Creek	744	779	815	853	893	934	978	1,023	1,071	1,121

INST. NO.	SUBSTATION	75-76	76-77	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85
7-80	Gilbert	950	1,041	1,141	1,251	1,371	1,503	1,647	1,805	1,979	2,169
7-70	Canyon Creek	1,847	1,892	1,938	1,985	2,034	2,083	2,134	2,186	2,239	2,294
7-101	Townsend	4,333	4,560	4,799	5,051	5,316	5,594	5,888	6,196	6,521	6,863
7-102	Townsend REA	1,123	1,222	1,329	1,446	1,574	1,712	1,863	2,027	2,225	2,400
7-111	Toston	1,629	1,763	1,908	2,065	2,235	2,419	2,619	2,834	3,067	3,320
7-120	Crow Creek W & BR	1,987	1,996	2,006	2,015	2,024	2,033	2,043	2,052	2,062	2,071
7-130	Loweth No. 1	2,900	3,016	3,136	3,262	3,392	3,528	3,669	3,816	3,968	4,127
7-132	White Sulphur Springs	2,152	2,245	2,343	2,445	2,551	2,662	2,778	2,898	3,024	3,156

INST. NO.	SUBSTATION	75-76	76-77	77-78	78-79	79-80	80-81	82-82	82-83	83-84	84-85
9-107	Hoerner - Waldorf Bank 1	7,800	8,509	9,284	10,129	11,050	12,056	13,153	14,350	15,656	17,081
9-108	Hoerner - Waldorf Bank 2	8,500	9,273	10,117	11,038	12,042	13,138	14,334	15,638	17,061	18,614
9-109	Hoerner - Waldorf Bank 3	8,192	8,937	9,750	10,638	11,606	12,662	13,814	15,071	16,443	17,939
9-71	Missoula #1 3.3 kV	8,791	8,878	8,967	9,057	9,147	9,239	9,331	9,425	9,519	9,614
9-72	Missoula #1 12.5 kV	16,286	17,020	17,788	18,590	19,428	20,305	21,220	22,177	23,177	24,223
9-221	Missoula #2 Bank 1	16,808	17,381	17,973	18,586	19,219	19,874	20,551	21,251	21,975	22,723
9-222	Missoula #2 Bank 2	17,201	18,143	19,135	20,182	21,287	22,452	23,680	24,976	26,343	27,784
9-220	Missoula #2 Bank 3	20,000	20,400	20,808	21,224	21,648	22,081	22,523	22,973	23,433	23,901
9-231	Missoula #3 Bank 1	10,809	10,868	10,928	10,988	11,048	11,109	11,170	11,231	11,293	11,355
9-232	Missoula #3 Bank 2	14,628	15,274	15,949	16,653	17,389	18,156	18,958	19,795	20,669	21,582
9-120	Alberton	747	785	825	867	911	957	1,006	1,057	1,111	1,167
9-720	Tarkio REA	529	582	641	705	776	854	940	1,035	1,139	1,254
9-100	Frenchtown W/BPA	4,960	5,603	6,330	7,151	8,079	9,127	10,311	11,648	13,159	14,866
9-650	Corvallis	1,462	1,536	1,614	1,695	1,781	1,872	1,967	2,066	2,171	2,281
9-730	Corvallis W/BPA	6,346	6,899	7,501	8,155	8,866	9,640	10,480	11,394	12,388	13,468
9-660	Darby	7,550	7,996	8,443	8,941	9,441	9,990	10,541	11,293	11,946	12,600
9-140	Diamond Match	2,770	2,778	2,787	2,795	2,804	2,812	2,821	2,830	2,838	2,847

INST. NO.	SUBSTATION	75-76	76-77	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85
9-580	Florence	673	738	809	887	973	1,066	1,169	1,282	1,405	1,541
9-639	Grantsdale W/BPA	1,450	1,575	1,700	1,800	1,925	2,075	2,225	2,350	2,500	2,700
9-640	Hamilton City	3,494	3,671	3,856	4,047	4,245	4,451	4,665	4,887	5,117	5,356
9-641	Hamilton Rural	3,129	3,409	3,713	4,045	4,406	4,799	5,227	5,694	6,203	6,756
9-180	Haugen	122	124	126	129	132	134	137	140	142	145
9-570	Lolo	4,600	4,800	5,050	5,300	5,600	5,900	6,200	6,500	6,800	7,100
9-690	Lolo W/BPA	3,600	3,800	4,050	4,300	4,600	4,900	5,200	5,500	5,800	6,100
9-250	Plains	4,561	4,778	5,006	5,244	5,494	5,756	6,030	6,317	6,618	6,934
9-710	Ravenna W/BPA	492	540	593	651	714	784	861	945	1,037	1,138
9-190	Saltese	114	120	128	136	144	153	162	172	183	194
9-160	St. Regis	756	772	788	805	822	840	857	876	894	913
9-590	Stevensville	2,244	2,363	2,488	2,619	2,758	2,903	3,057	3,218	3,388	3,567
9-610	Stevensville W/BPA	2,544	2,850	3,194	3,578	4,009	4,492	5,033	5,639	6,318	7,079
9-150	Superior	2,000	2,025	2,050	2,075	2,100	2,125	2,150	2,175	2,200	2,225
9-681	Thompson Falls City	3,797	4,084	4,392	4,724	5,080	5,463	5,876	6,319	6,796	7,309

INST. NO.	SUBSTATION	75-76	76-77	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85
9-272	Thompson Falls YPL 2.4 kV	1,578	1,613	1,648	1,685	1,722	1,760	1,799	1,839	1,880	1,922
9-510	Thompson Falls Lumber	920	928	935	943	950	958	966	974	982	990
9-700	Flodin Lumber	1,100	1,131	1,163	1,196	1,230	1,264	1,300	1,337	1,375	1,414
9-530	Thompson River Rural	60	61	63	65	67	69	71	73	76	78
9-620	Victor	682	702	723	745	767	790	814	838	863	889